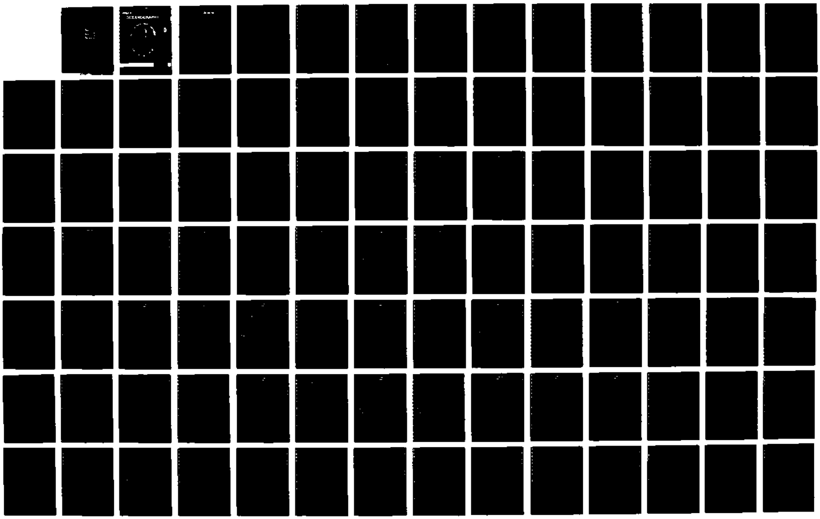
AD-A181 764 MICROSTRUCTURE CASTS DURING AIWEX (ARCTIC INTERNAL WAVE EXPERIMENT) A SUMMARY(U) OREGON STATE UNIV CORVALLIS COLL OF OCEANOGRAPHY T M DILLON ET AL. APR 85 DATA-122 1/5

UNCLASSIFIED N00014-84-C-0218 F/G 8/3 NL



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

(12)

College of OCEANOGRAPHY

MICROSTRUCTURE CASTS DURING AIWEX: A SUMMARY

by

Thomas M. Dillon
Michael D. Brown
Holly C. Garrow

Reference 86-7
Data Report 122

OREGON STATE UNIVERSITY

Unclassified

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER 86-7	2. GOVT ACCESSION NO. AD-A161 764	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) MICROSTRUCTURE CASTS DURING AIWEX: A SUMMARY		5. TYPE OF REPORT & PERIOD COVERED Data Report #122
		6. PERFORMING ORG. REPORT NUMBER
7. AUTHOR(s) Dillon, T.M.; Brown, Mike; Garrow, Holly		8. CONTRACT OR GRANT NUMBER(s) N00014-84-C-0218
9. PERFORMING ORGANIZATION NAME AND ADDRESS College of Oceanography Oregon State University Corvallis, OR 97331		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS NR083-102
11. CONTROLLING OFFICE NAME AND ADDRESS Office of Naval Research Ocean Science & Technology Division Arlington, Virginia 22217		12. REPORT DATE March-April 1985
		13. NUMBER OF PAGES 434
14. MONITORING AGENCY NAME & ADDRESS(if different from Controlling Office)		15. SECURITY CLASS. (of this report) Unclassified
		15a. DECLASSIFICATION/DOWNGRADING SCHEDULE

16. DISTRIBUTION STATEMENT (of this Report)

Approved for public release; distribution unlimited

17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)

18. SUPPLEMENTARY NOTES

Underice internal waves; Spring season; Sea water eddies; Bathythermograph data; Electrical conductivity; Temperature/Salinity data; Staircase temperature profiles.

19. KEY WORDS (Continue on reverse side if necessary and identify by block number)

20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

The Arctic Internal Wave Experiment (AIWEX) was designed to study the internal wave and microstructure fields in the Beaufort Sea in the early spring. A major goal of the experiment was to verify the hypothesis that the internal wave and microstructure fields beneath the ice are far less energetic than in temperate oceans. Major goals of the microstructure measurements were: to characterize the double-diffusive staircase region in the depth range 300-450m; to estimate the heat flux from the deep Atlantic water into shallower depth zones; and to assess the influence of mesoscale and submesoscale eddies on turbulence beneath the ice.

DD FORM 1 JAN 73 1473 EDITION OF 1 NOV 65 IS OBSOLETE

S/N 0102-014-6601

Unclassified

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

An ice camp was established in mid March 1985 to accomplish these goals. The camp was occupied until the first week of May, and microstructure casts were made beginning March 20 (Julian Day 79). Microstructure profiling continued until April 26; no profiles were obtained from April 4 through April 16 because of a malfunction in the data acquisition system. Over 700 casts were made spanning the range 0 to 500 m. The time between profiles averaged 20 minutes for a full-range profile. Not all casts covered the full depth range; some yo-yo casts through selected depth ranges were made to obtain detailed information on a shorter time scale. The ice camp drifted with a typical speed of 5 to 10 cm/s, although there were periods when the speed was as slow as 1 cm/s.

MICROSTRUCTURE CASTS DURING AIWEX: A SUMMARY

by

Thomas M. Dillon

Michael D. Brown

Holly C. Garrow

College of Oceanography
Oregon State University
Corvallis, Oregon 97331

Approved for Public Release
Distribution Unlimited
Data Report 122
Reference 86-7

ACKNOWLEDGEMENTS

The success of the AIWEX experiment was due in large part to the dedication and skill of the logistics team of the Polar Science Center, Applied Physics Laboratory, University of Washington. Andy Heiberg, Allen Hielscher, and Imants Virsnieks demonstrated an inordinate tolerance to the naivete of polar greenhorns. Jamie Morison deserves special thanks for keeping the moral of the camp at a high level, and for sharing his expertise in all things Arctic. He, along with C. Paulson, M. Levine, and E. D'Asaro provided much of the scientific motivation for the Aiwex experience. The experiment could not have been accomplished without the help of Roger Samelson, who seemed never to tire, and was always willing to "...make one more cast."

Support for this experiment was provided by the Office of Naval Research, contract number N00014-84-C-0218, code 420 PO. Logistics support was sponsored by the ONR, code 425 AR.

TABLE OF CONTENTS

INTRODUCTION

The Arctic Internal Wave Experiment (AIWEX) was designed to study the internal wave and microstructure fields in the Beaufort Sea in the early spring. A major goal of the experiment was to verify the hypothesis that the internal wave and microstructure fields beneath the ice are far less energetic than in temperate oceans. Major goals of the microstructure measurements were to characterize the double-diffusive staircase region in the depth range 300-450 m, to estimate the heat flux from the deep Atlantic water into shallower depth zones, and to assess the influence of mesoscale and sub-mesoscale eddies on turbulence beneath the ice.

An ice camp was established in mid March 1985 to accomplish these goals. The camp was occupied until the first week of May, and microstructure casts were made beginning March 20 (Julian Day 79). Microstructure profiling continued until April 26; no profiles were obtained from April 4 through April 16 because of a malfunction in the data acquisition system. Over 700 casts were made spanning the range 0 to 500 m. The time between profiles averaged 20 minutes for a full-range profile. Not all casts covered the full depth range; some yo-yo casts through selected depth ranges were made to obtain detailed information on a shorter time scale. The ice camp drifted with a typical speed of 5 to 10 cm/s, although there were periods when the speed was as slow as 1 cm/s.

A. INSTRUMENTS

Microstructure casts were made through 2 meters of ice from a hydrohole positioned inside a small hut. The instrument used was the WAZP II, a vertical profiler that carries temperature, conductivity, pressure, and airfoil shear sensors (Crawford and Osborn, 1980). The WAZP resembles the RSVP (Caldwell, Dillon and Moum, 1985) in internal details, differing mainly in the method of sensor mounting, and method of achieving drag. The RSVP has temperature and conductivity sensors carefully shielded to prevent breakage, while the WAZP mounting is more exposed to the flow; the RSVP achieve drag with wing flaps, while the WAZP uses annular fiber brushes.

The temperature sensor was an FP07 thermistor. Two types of WAZP were used, the difference being the type of conductivity sensor. A Neil-Brown sensor (NBS) was used on instruments WA01 and WA02, while a microconductivity sensor (MCS); manufactured by Precision Measurement Engineering and described by Head [1983]) was used on instruments WA)3 and WA04. The MCS has a much finer spatial resolution than the NBS, but suffers from severe calibration drifts. The NBS also showed some drift with time, but was much more reliable than the MCS. WA01 and WA02 had shear sensors on stings protruding 10 cm beyond the WAZP nose cone front; the NBS was mounted on the side of the nose cone about 5 cm from the nose cone front, and the thermistor was mounted at the leading edge of the NBS. WA03 and WA04 had an MCS, thermistor, and shear sensors all mounted on a stings protruding 10 cm in front of the nose cone.

Voltage signals were sent up the data line, amplified, filtered, and digitized with a 12-bit analog to digital converter controlled by an LSI 11/23 computer system. Resolution was increased by amplifying temperature and conductivity each on two independent channels. On one channel (the "low gain" channel), amplifier gain and offset was kept constant, but on the second channel (the "high gain" channel), the operator periodically adjusted the voltage offset (using digital switches) to maximize the resolution. Typically, the voltage offset for conductivity was adjusted 3 or 4 times during a drop, increasing the effective dynamic range from 12 bits to 13 or 14 bits.

Temperature and conductivity were filtered at 40 Hz, and sampled at a rate of 130 times per second. Pressure was filtered at 1 Hz and sampled 130/s, while shear sensors were filtered at 80 Hz, and sampled at 260/s.

B. DESCRIPTION OF OBSERVATIONS

The microstructure observations recorded here are composed of five sections. The first is a collection of "deep" temperature, salinity, and σ_t plots spanning the time of the experiment. These plots extend from the surface to 350, 400, or 450 meters, depending on the length of the cast. They illustrate the structure of the upper Beaufort sea, and how structures changes in time and space. Averaging for these plots corresponds to about a 0.4 meter averaging length (64 point average of a signal sampled at a rate of 130/s, with approximately 80 cm/s fall speed). Salinities were calculated using the low-gain temperature and conductivity channels.

The second section is a series of T-S diagrams taken from the same 64 point average data described above.

The third section is a series of temperature plots of nearly all the casts, with more than one profile on each cast. These are drawn together, often on expanded depth and temperature scales, to illustrate the variability (at times, the lack of variability!) of structures in the upper waters of the Beaufort Sea. Plots on expanded scales typically are 16 point averages, that is, approximately a 10 cm resolution.

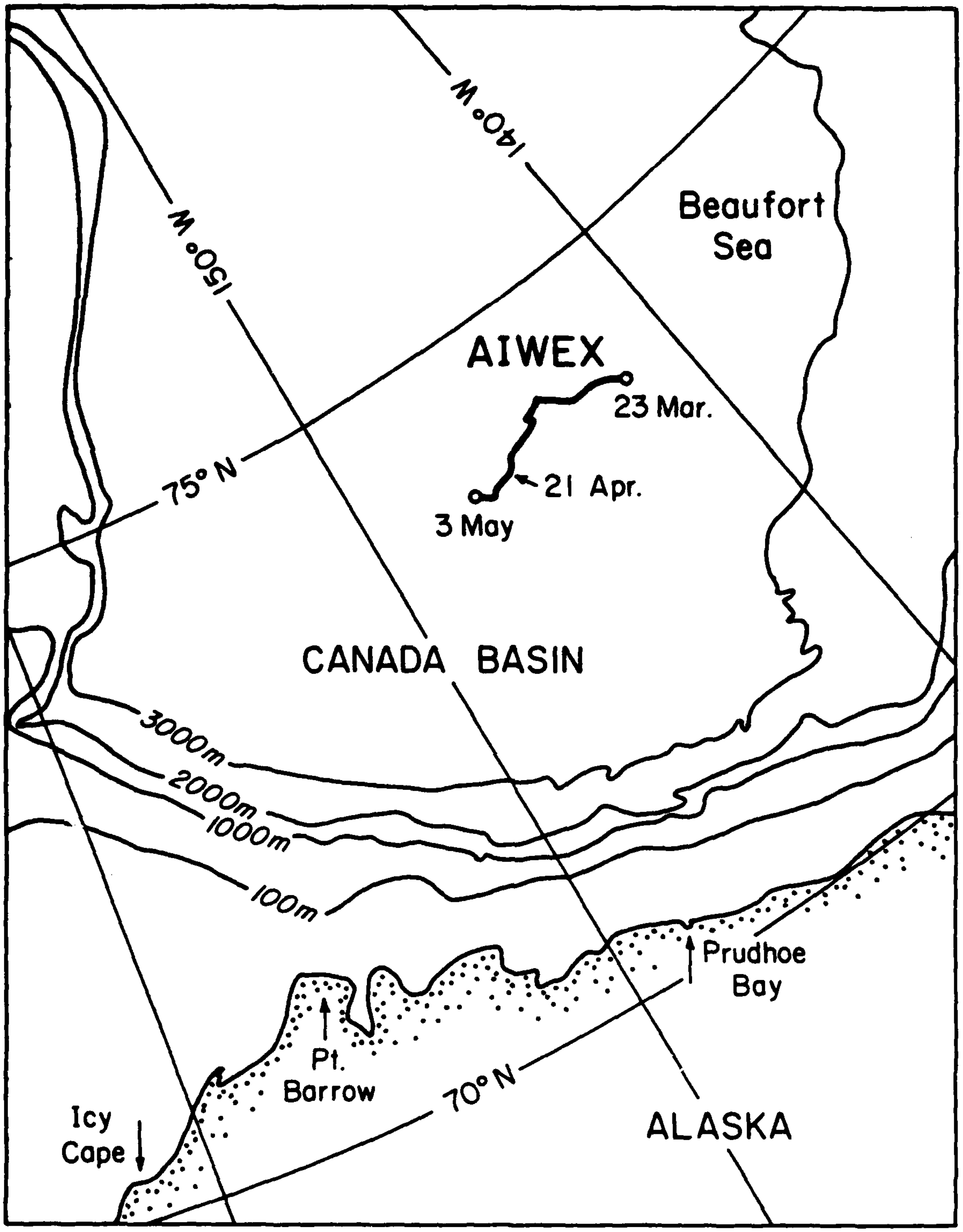
The fourth section is a detail of temperature profiles in the thermohaline staircase region between 340 and 380 m. These are a subset of a 37 hour time-series of drops taken closely in time with the instrument WA02. Individual steps are traceable from profile to profile in this series, and the vertical oscillation of internal waves can be clearly seen. The time between profiles (typically 10 to 20 minutes) is usually short enough to avoid aliasing, because the buoyancy frequency here is of order 1 cycle per hour.

The fifth section is a collection of kinetic energy dissipation rate profiles plotted beside buoyancy frequency. Dissipation rates were calculated by integrating the spectrum from the shear sensors over a band dependent on the spectral energy (a method similar to that of Shay and Gregg [1986] was used to determine the upper cut-off frequency). The

averaging interval used was typically 2 meters. Dissipation rates from a three-day period beginning on March 24 (J.D. 114) are included. The March 24 dissipation rates are typical of most other days of the experiment: little if any significant turbulence was seen outside of the surface mixed layer. Usually, the calculated dissipation rate is far below 30 νN^2, the lowest value expected for overturning turbulence. On March 25 (J.D. 115), the ice camp passed through a small mesoscale eddy, and significant but intermittent dissipation rates were seen in the upper 200 m. On March 26 (J.D. 116), few mixing events were observed.

Several investigators made measurements that compliment the microstructure observations. M. Levine used an ice-moored array of Seabird sensors to make a time series of temperature, depth, and conductivity. J. Morison used a Seabird CTD system along with propeller triplet current meter to make vertical profiles of temperature, conductivity, and velocity. C. Paulson deployed an array of S4 and VMCM current meters. R. Pinkel and J. Morrison monitored currents with tow acoustic doppler current meters. E. D'Asaro measured vertical profiles of current a distances far removed from the camp using XCPs. J. Swift measured deep profiles of various chemical species with bottle casts. M. McPhee measured turbulent velocity fluctuations in the boundary layer beneath the ice. The Polar Science Center logistics group monitored the ice camp position using a satellite navigation system, and measured the surface winds.

C. CAMP POSITION MAP



140° W
150° W
Beaufort Sea
AIWEX
23 Mar.
21 Apr.
3 May
75° N
CANADA BASIN
3000m
2000m
1000m
100m
Prudhoe Bay
Pt. Barrow
70° N
ALASKA
Icy Cape

D. CAMP POSITION TABLE

J. Day	hour	long	lat	J. Day	hour	long	lat
82	8	74.02624	-142.88832	82	9	74.02626	-142.89253
82	10	74.02622	-142.89667	82	11	74.02621	-142.90036
82	12	74.02614	-142.90373	82	13	74.02599	-142.90685
82	14	74.02581	-142.91043	82	15	74.02553	-142.91566
82	16	74.02532	-142.92162	82	17	74.02518	-142.92836
82	18	74.02518	-142.93726	82	19	74.02523	-142.94635
82	20	74.02533	-142.95724	82	21	74.02543	-142.96899
82	22	74.02555	-142.98195	82	23	74.02563	-142.99475
83	0	74.02570	-143.00874	83	1	74.02576	-143.02255
83	2	74.02581	-143.03613	83	3	74.02604	-143.05013
83	4	74.02625	-143.06357	83	5	74.02647	-143.07674
83	6	74.02679	-143.08951	83	7	74.02720	-143.10202
83	8	74.02768	-143.11507	83	9	74.02806	-143.12868
83	10	74.02833	-143.14279	83	11	74.02865	-143.15866
83	12	74.02897	-143.17563	83	13	74.02918	-143.19455
83	14	74.02969	-143.21449	83	15	74.03031	-143.23454
83	16	74.03101	-143.25464	83	17	74.03204	-143.27399
83	18	74.03314	-143.29303	83	19	74.03461	-143.31160
83	20	74.03635	-143.33038	83	21	74.03862	-143.34958
83	22	74.04109	-143.36909	83	23	74.04410	-143.38914
84	0	74.04721	-143.40878	84	1	74.05048	-143.42844
84	2	74.05408	-143.44717	84	3	74.05766	-143.46368
84	4	74.06120	-143.48050	84	5	74.06468	-143.49695
84	6	74.06837	-143.51170	84	7	74.07211	-143.52670
84	8	74.07597	-143.54053	84	9	74.07986	-143.55444
84	10	74.08412	-143.56796	84	11	74.08838	-143.58266
84	12	74.09267	-143.59764	84	13	74.09702	-143.61400
84	14	74.10147	-143.63069	84	15	74.10603	-143.64848
84	16	74.11073	-143.66730	84	17	74.11562	-143.68671
84	18	74.12078	-143.70602	84	19	74.12620	-143.72583
84	20	74.13178	-143.74335	84	21	74.13755	-143.75880
84	22	74.14327	-143.77216	84	23	74.14880	-143.78308
85	0	74.15408	-143.79291	85	1	74.15914	-143.80205
85	2	74.16399	-143.81221	85	3	74.16872	-143.82286
85	4	74.17348	-143.83440	85	5	74.17844	-143.84636
85	6	74.18377	-143.85907	85	7	74.18921	-143.87099
85	8	74.19518	-143.88055	85	9	74.20122	-143.88673
85	10	74.20734	-143.89018	85	11	74.21320	-143.89088
85	12	74.21911	-143.89227	85	13	74.22446	-143.89432
85	14	74.22922	-143.89781	85	15	74.23353	-143.90399
85	16	74.23719	-143.91168	85	17	74.24055	-143.92175
85	18	74.24391	-143.93295	85	19	74.24671	-143.94122
85	20	74.24923	-143.94878	85	21	74.25144	-143.95380
85	22	74.25287	-143.95587	85	23	74.25400	-143.95604

J. Day	hour	long	lat	J. Day	hour	long	lat
86	0	74.25465	-143.95468	86	1	74.25493	-143.95323
86	2	74.25452	-143.95279	86	3	74.25379	-143.95326
86	4	74.25330	-143.95702	86	5	74.25243	-143.95801
86	6	74.25163	-143.95856	86	7	74.25111	-143.95886
86	8	74.25053	-143.95772	86	9	74.24988	-143.95593
86	10	74.24919	-143.95361	86	11	74.24850	-143.95128
86	12	74.24763	-143.94849	86	13	74.24673	-143.94588
86	14	74.24577	-143.94400	86	15	74.24485	-143.94191
86	16	74.24394	-143.94029	86	17	74.24311	-143.93797
86	18	74.24232	-143.93486	86	19	74.24157	-143.93109
86	20	74.24075	-143.92642	86	21	74.23988	-143.92104
86	22	74.23893	-143.91528	86	23	74.23798	-143.90953
87	0	74.23706	-143.90370	87	1	74.23627	-143.89870
87	2	74.23566	-143.89412	87	3	74.23524	-143.89104
87	4	74.23505	-143.88890	87	5	74.23506	-143.88760
87	6	74.23526	-143.88768	87	7	74.23549	-143.88840
87	8	74.23573	-143.88751	87	9	74.23592	-143.88687
87	10	74.23593	-143.88535	87	11	74.23598	-143.88371
87	12	74.23581	-143.88155	87	13	74.23566	-143.87962
87	14	74.23559	-143.87834	87	15	74.23548	-143.87717
87	16	74.23547	-143.87711	87	17	74.23553	-143.87796
87	18	74.23569	-143.87903	87	19	74.23586	-143.87990
87	20	74.23602	-143.88048	87	21	74.23621	-143.88016
87	22	74.23640	-143.88013	87	23	74.23653	-143.87938
88	0	74.23658	-143.87869	88	1	74.23650	-143.87785
88	2	74.23632	-143.87750	88	3	74.23601	-143.87727
88	4	74.23560	-143.87758	88	5	74.23507	-143.87787
88	6	74.23451	-143.87837	88	7	74.23386	-143.87825
88	8	74.23316	-143.87817	88	9	74.23243	-143.87746
88	10	74.23155	-143.87636	88	11	74.23064	-143.87465
88	12	74.22964	-143.87273	88	13	74.22858	-143.87054
88	14	74.22753	-143.86832	88	15	74.22646	-143.86667
88	16	74.22543	-143.86513	88	17	74.22448	-143.86400
88	18	74.22356	-143.86378	88	19	74.22264	-143.86464
88	20	74.22179	-143.86563	88	21	74.22097	-143.86771
88	22	74.22022	-143.86913	88	23	74.21953	-143.87007
89	0	74.21894	-143.87111	89	1	74.21840	-143.87195
89	2	74.21786	-143.87271	89	3	74.21731	-143.87334
89	4	74.21668	-143.87447	89	5	74.21606	-143.87567
89	6	74.21538	-143.87724	89	7	74.21465	-143.87901
89	8	74.21388	-143.88055	89	9	74.21323	-143.88226
89	10	74.21261	-143.88330	89	11	74.21210	-143.88397
89	12	74.21157	-143.88379	89	13	74.21104	-143.88338
89	14	74.21046	-143.88260	89	15	74.20974	-143.88196
89	16	74.20885	-143.88190	89	17	74.20794	-143.88245
89	18	74.20691	-143.88409	89	19	74.20589	-143.88622
89	20	74.20489	-143.88889	89	21	74.20404	-143.89149
89	22	74.20330	-143.89394	89	23	74.20262	-143.89587

J. Day	hour	long	lat	J. Day	hour	long	lat
90	0	74.20197	-143.89702	90	1	74.20126	-143.89731
90	2	74.20052	-143.89687	90	3	74.19976	-143.89565
90	4	74.19898	-143.89400	90	5	74.19835	-143.89259
90	6	74.19783	-143.89143	90	7	74.19746	-143.89058
90	8	74.19723	-143.89021	90	9	74.19712	-143.89001
90	10	74.19714	-143.89008	90	11	74.19720	-143.89011
90	12	74.19726	-143.89020	90	13	74.19724	-143.88992
90	14	74.19710	-143.88937	90	15	74.19683	-143.88873
90	16	74.19647	-143.88794	90	17	74.19608	-143.88734
90	18	74.19560	-143.88673	90	19	74.19518	-143.88635
90	20	74.19474	-143.88608	90	21	74.19436	-143.88577
90	22	74.19402	-143.88539	90	23	74.19369	-143.88490
91	0	74.19340	-143.88414	91	1	74.19314	-143.88318
91	2	74.19289	-143.88213	91	3	74.19267	-143.88089
91	4	74.19250	-143.87961	91	5	74.19237	-143.87914
91	6	74.19218	-143.87854	91	7	74.19202	-143.87817
91	8	74.19189	-143.87827	91	9	74.19180	-143.87859
91	10	74.19169	-143.87901	91	11	74.19160	-143.87907
91	12	74.19160	-143.87907	91	13	74.19160	-143.87868
91	14	74.19168	-143.87833	91	15	74.19179	-143.87778
91	16	74.19186	-143.87743	91	17	74.19186	-143.87720
91	18	74.19173	-143.87755	91	19	74.19154	-143.87816
91	20	74.19118	-143.87938	91	21	74.19075	-143.88092
91	22	74.19032	-143.88268	91	23	74.18987	-143.88446
92	0	74.18949	-143.88626	92	1	74.18916	-143.88786
92	2	74.18893	-143.88930	92	3	74.18866	-143.89091
92	4	74.18848	-143.89252	92	5	74.18828	-143.89365
92	6	74.18803	-143.89540	92	7	74.18772	-143.89716
92	8	74.18735	-143.89861	92	9	74.18701	-143.90021
92	10	74.18672	-143.90112	92	11	74.18641	-143.90288
92	12	74.18623	-143.90369	92	13	74.18607	-143.90543
92	14	74.18597	-143.90657	92	15	74.18586	-143.90944
92	16	74.18575	-143.91272	92	17	74.18558	-143.91774
92	18	74.18532	-143.92319	92	19	74.18495	-143.92986
92	20	74.18445	-143.93678	92	21	74.18383	-143.94475
92	22	74.18312	-143.95322	92	23	74.18237	-143.96300
93	0	74.18163	-143.97281	93	1	74.18098	-143.98402
93	2	74.18041	-143.99602	93	3	74.18006	-144.00793
93	4	74.17981	-144.02010	93	5	74.17972	-144.03148
93	6	74.17977	-144.04208	93	7	74.17986	-144.05194
93	8	74.18003	-144.06084	93	9	74.18011	-144.06927
93	10	74.18008	-144.07736	93	11	74.17989	-144.08546
93	12	74.17949	-144.09389	93	13	74.17887	-144.10295
93	14	74.17814	-144.11292	93	15	74.17726	-144.12376
93	16	74.17640	-144.13545	93	17	74.17558	-144.14737
93	18	74.17484	-144.15976	93	19	74.17427	-144.17244
93	20	74.17381	-144.18544	93	21	74.17350	-144.19833
93	22	74.17324	-144.21121	93	23	74.17293	-144.22409

J. Day	hour	long	lat	J. Day	hour	long	lat
94	0	74.17259	-144.23700	94	1	74.17212	-144.24976
94	2	74.17155	-144.26234	94	3	74.17088	-144.27464
94	4	74.17013	-144.28629	94	5	74.16943	-144.29741
94	6	74.16878	-144.30777	94	7	74.16821	-144.31744
94	8	74.16764	-144.32666	94	9	74.16713	-144.33521
94	10	74.16659	-144.34357	94	11	74.16597	-144.35164
94	12	74.16518	-144.35934	94	13	74.16434	-144.36754
94	14	74.16334	-144.37593	94	15	74.16235	-144.38499
94	16	74.16135	-144.39441	94	17	74.16040	-144.40439
94	18	74.15962	-144.41489	94	19	74.15899	-144.42601
94	20	74.15858	-144.43752	94	21	74.15832	-144.44983
94	22	74.15816	-144.46185	94	23	74.15797	-144.47401
95	0	74.15766	-144.48515	95	1	74.15721	-144.49638
95	2	74.15664	-144.50687	95	3	74.15583	-144.51683
95	4	74.15487	-144.52614	95	5	74.15408	-144.53389
95	6	74.15300	-144.54004	95	7	74.15202	-144.54604
95	8	74.15112	-144.55090	95	9	74.15042	-144.55638
95	10	74.14986	-144.55931	95	11	74.14951	-144.56166
95	12	74.14932	-144.56404	95	13	74.14917	-144.56516
95	14	74.14913	-144.56598	95	15	74.14905	-144.56589
95	16	74.14904	-144.56544	95	17	74.14886	-144.56622
95	18	74.14883	-144.56577	95	19	74.14870	-144.56610
95	20	74.14841	-144.56798	95	21	74.14801	-144.57060
95	22	74.14746	-144.57501	95	23	74.14696	-144.58038
96	0	74.14647	-144.58624	96	1	74.14606	-144.59152
96	2	74.14574	-144.59639	96	3	74.14555	-144.59892
96	4	74.14547	-144.60010	96	5	74.14551	-144.59857
96	6	74.14561	-144.59784	96	7	74.14570	-144.59608
96	8	74.14577	-144.59392	96	9	74.14579	-144.59161
96	10	74.14576	-144.59064	96	11	74.14574	-144.59084
96	12	74.14571	-144.59157	96	13	74.14575	-144.59267
96	14	74.14587	-144.59367	96	15	74.14600	-144.59439
96	16	74.14617	-144.59459	96	17	74.14635	-144.59410
96	18	74.14649	-144.59351	96	19	74.14657	-144.59290
96	20	74.14658	-144.59207	96	21	74.14655	-144.59181
96	22	74.14644	-144.59209	96	23	74.14633	-144.59280
97	0	74.14622	-144.59373	97	1	74.14620	-144.59471
97	2	74.14622	-144.59547	97	3	74.14629	-144.59583
97	4	74.14632	-144.59608	97	5	74.14639	-144.59634
97	6	74.14636	-144.59650	97	7	74.14642	-144.59698
97	8	74.14649	-144.59743	97	9	74.14652	-144.59819
97	10	74.14651	-144.59914	97	11	74.14649	-144.59993
97	12	74.14647	-144.60046	97	13	74.14643	-144.60101
97	14	74.14645	-144.60123	97	15	74.14649	-144.60168
97	16	74.14658	-144.60178	97	17	74.14678	-144.60173
97	18	74.14703	-144.60219	97	19	74.14734	-144.60332
97	20	74.14771	-144.60535	97	21	74.14807	-144.60863
97	22	74.14840	-144.61295	97	23	74.14867	-144.61821

J. Day	hour	long	lat	J. Day	hour	long	lat
98	0	74.14884	-144.62416	98	1	74.14889	-144.63037
98	2	74.14882	-144.63646	98	3	74.14867	-144.64185
98	4	74.14851	-144.64651	98	5	74.14834	-144.65001
98	6	74.14821	-144.65240	98	7	74.14806	-144.65375
98	8	74.14789	-144.65465	98	9	74.14775	-144.65503
98	10	74.14761	-144.65511	98	11	74.14743	-144.65527
98	12	74.14719	-144.65573	98	13	74.14692	-144.65631
98	14	74.14651	-144.65712	98	15	74.14601	-144.65808
98	16	74.14539	-144.65962	98	17	74.14466	-144.66173
98	18	74.14388	-144.66475	98	19	74.14310	-144.66885
98	20	74.14234	-144.67403	98	21	74.14162	-144.68054
98	22	74.14091	-144.68781	98	23	74.14025	-144.69548
99	0	74.13957	-144.70317	99	1	74.13890	-144.71040
99	2	74.13817	-144.71651	99	3	74.13742	-144.72131
99	4	74.13671	-144.72437	99	5	74.13602	-144.72615
99	6	74.13553	-144.72618	99	7	74.13511	-144.72539
99	8	74.13483	-144.72371	99	9	74.13467	-144.72215
99	10	74.13462	-144.71964	99	11	74.13451	-144.71777
99	12	74.13441	-144.71658	99	13	74.13415	-144.71593
99	14	74.13384	-144.71500	99	15	74.13348	-144.71347
99	16	74.13306	-144.71233	99	17	74.13265	-144.71054
99	18	74.13226	-144.70840	99	19	74.13182	-144.70575
99	20	74.13131	-144.70288	99	21	74.13073	-144.69925
99	22	74.13015	-144.69562	99	23	74.12952	-144.69218
100	0	74.12885	-144.68877	100	1	74.12817	-144.68504
100	2	74.12758	-144.68143	100	3	74.12704	-144.67781
100	4	74.12660	-144.67441	100	5	74.12625	-144.67099
100	6	74.12591	-144.66766	100	7	74.12566	-144.66438
100	8	74.12540	-144.66109	100	9	74.12502	-144.65761
100	10	74.12455	-144.65401	100	11	74.12399	-144.65013
100	12	74.12334	-144.64607	100	13	74.12261	-144.64134
100	14	74.12188	-144.63673	100	15	74.12113	-144.63181
100	16	74.12039	-144.62680	100	17	74.11972	-144.62138
100	18	74.11891	-144.61554	100	19	74.11798	-144.60919
100	20	74.11690	-144.60185	100	21	74.11566	-144.59372
100	22	74.11426	-144.58444	100	23	74.11288	-144.57483
101	0	74.11157	-144.56453	101	1	74.11043	-144.55406
101	2	74.10942	-144.54385	101	3	74.10857	-144.53365
101	4	74.10778	-144.52338	101	5	74.10715	-144.51309
101	6	74.10648	-144.50249	101	7	74.10564	-144.49159
101	8	74.10474	-144.48068	101	9	74.10360	-144.46930
101	10	74.10237	-144.45793	101	11	74.10110	-144.44658
101	12	74.09985	-144.43576	101	13	74.09850	-144.42567
101	14	74.09729	-144.41594	101	15	74.09598	-144.40657
101	16	74.09460	-144.39824	101	17	74.09297	-144.38896
101	18	74.09111	-144.37959	101	19	74.08881	-144.36972
101	20	74.08626	-144.36047	101	21	74.08348	-144.35226
101	22	74.08064	-144.34511	101	23	74.07789	-144.33955

J. Day	hour	long	lat	J. Day	hour	long	lat
102	0	74.07531	-144.33418	102	1	74.07299	-144.33041
102	2	74.07115	-144.32817	102	3	74.06996	-144.32812
102	4	74.06917	-144.32870	102	5	74.06882	-144.33022
102	6	74.06868	-144.33159	102	7	74.06867	-144.33359
102	8	74.06859	-144.33507	102	9	74.06845	-144.33653
102	10	74.06797	-144.33664	102	11	74.06760	-144.33806
102	12	74.06712	-144.33934	102	13	74.06653	-144.34103
102	14	74.06601	-144.34273	102	15	74.06553	-144.34476
102	16	74.06516	-144.34659	102	17	74.06474	-144.34949
102	18	74.06432	-144.35266	102	19	74.06393	-144.35666
102	20	74.06355	-144.36064	102	21	74.06320	-144.36522
102	22	74.06284	-144.37015	102	23	74.06248	-144.37497
103	0	74.06218	-144.38065	103	1	74.06190	-144.38579
103	2	74.06165	-144.39066	103	3	74.06146	-144.39491
103	4	74.06124	-144.39838	103	5	74.06112	-144.40094
103	6	74.06101	-144.40239	103	7	74.06094	-144.40221
103	8	74.06085	-144.40314	103	9	74.06075	-144.40370
103	10	74.06063	-144.40468	103	11	74.06055	-144.40604
103	12	74.06049	-144.40782	103	13	74.06046	-144.40901
103	14	74.06044	-144.41037	103	15	74.06042	-144.41081
103	16	74.06041	-144.41100	103	17	74.06039	-144.41069
103	18	74.06034	-144.40974	103	19	74.06023	-144.40999
103	20	74.06003	-144.41377	103	21	74.05975	-144.41745
103	22	74.05938	-144.42264	103	23	74.05895	-144.42958
104	0	74.05850	-144.43729	104	1	74.05806	-144.44551
104	2	74.05769	-144.45291	104	3	74.05740	-144.45894
104	4	74.05714	-144.46405	104	5	74.05691	-144.46655
104	6	74.05678	-144.46826	104	7	74.05673	-144.47052
104	8	74.05670	-144.47112	104	9	74.05666	-144.47223
104	10	74.05664	-144.47372	104	11	74.05666	-144.47530
104	12	74.05663	-144.47684	104	13	74.05663	-144.47830
104	14	74.05659	-144.47960	104	15	74.05652	-144.48096
104	16	74.05638	-144.48409	104	17	74.05614	-144.48526
104	18	74.05586	-144.48839	104	19	74.05553	-144.49353
104	20	74.05521	-144.50050	104	21	74.05490	-144.50990
104	22	74.05464	-144.52057	104	23	74.05446	-144.53198
105	0	74.05442	-144.54338	105	1	74.05447	-144.55373
105	2	74.05462	-144.56303	105	3	74.05485	-144.57141
105	4	74.05506	-144.57849	105	5	74.05526	-144.58427
105	6	74.05532	-144.58763	105	7	74.05534	-144.59196
105	8	74.05535	-144.59665	105	9	74.05522	-144.60156
105	10	74.05508	-144.60645	105	11	74.05495	-144.61134
105	12	74.05482	-144.61534	105	13	74.05466	-144.61848
105	14	74.05453	-144.62007	105	15	74.05434	-144.62144
105	16	74.05414	-144.62364	105	17	74.05370	-144.62537
105	18	74.05315	-144.62808	105	19	74.05248	-144.63280
105	20	74.05167	-144.63957	105	21	74.05077	-144.64944
105	22	74.04980	-144.66058	105	23	74.04887	-144.67316

J. Day	hour	long	lat	J. Day	hour	long	lat
106	0	74.04797	-144.68581	106	1	74.04717	-144.69812
106	2	74.04648	-144.70891	106	3	74.04586	-144.71831
106	4	74.04534	-144.72542	106	5	74.04490	-144.73236
106	6	74.04436	-144.73903	106	7	74.04394	-144.74500
106	8	74.04334	-144.75171	106	9	74.04269	-144.75908
106	10	74.04198	-144.76707	106	11	74.04111	-144.77563
106	12	74.04022	-144.78470	106	13	74.03925	-144.79433
106	14	74.03814	-144.80434	106	15	74.03699	-144.81548
106	16	74.03596	-144.82616	106	17	74.03497	-144.83803
106	18	74.03393	-144.85242	106	19	74.03280	-144.86739
106	20	74.03167	-144.88367	106	21	74.03053	-144.90068
106	22	74.02944	-144.91902	106	23	74.02824	-144.93697
107	0	74.02708	-144.95496	107	1	74.02576	-144.97229
107	2	74.02448	-144.98892	107	3	74.02325	-145.00397
107	4	74.02194	-145.01860	107	5	74.02066	-145.03206
107	6	74.01942	-145.04469	107	7	74.01807	-145.05643
107	8	74.01675	-145.06775	107	9	74.01527	-145.07866
107	10	74.01380	-145.08975	107	11	74.01214	-145.10036
107	12	74.01044	-145.11118	107	13	74.00861	-145.12160
107	14	74.00676	-145.13208	107	15	74.00468	-145.14240
107	16	74.00250	-145.15311	107	17	74.00011	-145.16400
107	18	73.99750	-145.17543	107	19	73.99454	-145.18790
107	20	73.99142	-145.20132	107	21	73.98811	-145.21593
107	22	73.98466	-145.23163	107	23	73.98129	-145.24826
108	0	73.97804	-145.26581	108	1	73.97514	-145.28362
108	2	73.97260	-145.30104	108	3	73.97052	-145.31741
108	4	73.96870	-145.33287	108	5	73.96709	-145.34654
108	6	73.96566	-145.35811	108	7	73.96424	-145.36807
108	8	73.96274	-145.37640	108	9	73.96116	-145.38293
108	10	73.95960	-145.38800	108	11	73.95774	-145.39288
108	12	73.95583	-145.39749	108	13	73.95380	-145.40331
108	14	73.95189	-145.41011	108	15	73.95013	-145.41873
108	16	73.94849	-145.42899	108	17	73.94716	-145.44043
108	18	73.94613	-145.45309	108	19	73.94530	-145.46631
108	20	73.94480	-145.48013	108	21	73.94440	-145.49260
108	22	73.94407	-145.50468	108	23	73.94377	-145.51697
109	0	73.94352	-145.52864	109	1	73.94324	-145.54138
109	2	73.94283	-145.55380	109	3	73.94238	-145.56696
109	4	73.94191	-145.57953	109	5	73.94146	-145.59186
109	6	73.94098	-145.60300	109	7	73.94053	-145.61230
109	8	73.93993	-145.61928	109	9	73.93919	-145.62247
109	10	73.93832	-145.62408	109	11	73.93730	-145.62343
109	12	73.93633	-145.62247	109	13	73.93538	-145.62099
109	14	73.93454	-145.62022	109	15	73.93381	-145.62019
109	16	73.93314	-145.61946	109	17	73.93251	-145.62018
109	18	73.93176	-145.62022	109	19	73.93095	-145.61935
109	20	73.93004	-145.61774	109	21	73.92902	-145.61592
109	22	73.92780	-145.61394	109	23	73.92638	-145.61200

J. Day	hour	long	lat	J. Day	hour	long	lat
110	0	73.92480	-145.61041	110	1	73.92316	-145.60966
110	2	73.92158	-145.60970	110	3	73.92014	-145.61006
110	4	73.91892	-145.61137	110	5	73.91776	-145.61244
110	6	73.91671	-145.61298	110	7	73.91572	-145.61299
110	8	73.91487	-145.61157	110	9	73.91394	-145.60963
110	10	73.91299	-145.60626	110	11	73.91180	-145.60287
110	12	73.91039	-145.59926	110	13	73.90888	-145.59668
110	14	73.90719	-145.59444	110	15	73.90557	-145.59273
110	16	73.90415	-145.59157	110	17	73.90306	-145.58937
110	18	73.90232	-145.58574	110	19	73.90186	-145.58017
110	20	73.90154	-145.57262	110	21	73.90113	-145.56242
110	22	73.90048	-145.55020	110	23	73.89948	-145.53752
111	0	73.89809	-145.52495	111	1	73.89649	-145.51413
111	2	73.89465	-145.50470	111	3	73.89301	-145.49786
111	4	73.89149	-145.49323	111	5	73.89041	-145.49059
111	6	73.88991	-145.48883	111	7	73.88972	-145.48839
111	8	73.88989	-145.48792	111	9	73.89020	-145.48795
111	10	73.89051	-145.48788	111	11	73.89079	-145.48807
111	12	73.89083	-145.48682	111	13	73.89079	-145.48639
111	14	73.89073	-145.48618	111	15	73.89059	-145.48593
111	16	73.89045	-145.48538	111	17	73.89040	-145.48526
111	18	73.89040	-145.48543	111	19	73.89038	-145.48582
111	20	73.89035	-145.48567	111	21	73.89037	-145.48538
111	22	73.89050	-145.48517	111	23	73.89059	-145.48512
112	0	73.89071	-145.48584	112	1	73.89072	-145.48715
112	2	73.89071	-145.49089	112	3	73.89052	-145.49017
112	4	73.89019	-145.49106	112	5	73.88972	-145.49037
112	6	73.88927	-145.48972	112	7	73.88879	-145.48878
112	8	73.88847	-145.48923	112	9	73.88818	-145.48935
112	10	73.88804	-145.49046	112	11	73.88799	-145.49307
112	12	73.88803	-145.49599	112	13	73.88811	-145.49966
112	14	73.88822	-145.50101	112	15	73.88824	-145.50278
112	16	73.88825	-145.50243	112	17	73.88840	-145.49265
112	18	73.88850	-145.49222	112	19	73.88887	-145.48999
112	20	73.88931	-145.49600	112	21	73.88980	-145.50391
112	22	73.89026	-145.51358	112	23	73.89069	-145.52492
113	0	73.89091	-145.53581	113	1	73.89095	-145.54535
113	2	73.89074	-145.54808	113	3	73.89023	-145.54492
113	4	73.88975	-145.55046	113	5	73.88885	-145.55057
113	6	73.88806	-145.55125	113	7	73.88705	-145.55658
113	8	73.88631	-145.56100	113	9	73.88551	-145.57294
113	10	73.88491	-145.58351	113	11	73.88432	-145.59215
113	12	73.88371	-145.60002	113	13	73.88298	-145.60519
113	14	73.88198	-145.60966	113	15	73.88070	-145.60866
113	16	73.87901	-145.61292	113	17	73.87707	-145.61981
113	18	73.87502	-145.62578	113	19	73.87289	-145.63528
113	20	73.87087	-145.64836	113	21	73.86904	-145.66412
113	22	73.86755	-145.68030	113	23	73.86632	-145.69673

J. Day	hour	long	lat	J. Day	hour	long	lat
114	0	73.86536	-145.71043	114	1	73.86455	-145.72086
114	2	73.86377	-145.73006	114	3	73.86292	-145.73746
114	4	73.86185	-145.74113	114	5	73.86066	-145.74055
114	6	73.85937	-145.74490	114	7	73.85796	-145.75252
114	8	73.85657	-145.75664	114	9	73.85515	-145.76433
114	10	73.85375	-145.77046	114	11	73.85249	-145.77646
114	12	73.85118	-145.77870	114	13	73.84986	-145.78108
114	14	73.84846	-145.78069	114	15	73.84698	-145.77722
114	16	73.84540	-145.77361	114	17	73.84361	-145.77368
114	18	73.84165	-145.77814	114	19	73.83968	-145.78534
114	20	73.83766	-145.79526	114	21	73.83585	-145.80681
114	22	73.83401	-145.81964	114	23	73.83231	-145.83182
115	0	73.83065	-145.84290	115	1	73.82915	-145.85114
115	2	73.82782	-145.85666	115	3	73.82663	-145.85966
115	4	73.82565	-145.86241	115	5	73.82499	-145.86586
115	6	73.82455	-145.86728	115	7	73.82430	-145.86749
115	8	73.82419	-145.86726	115	9	73.82421	-145.86771
115	10	73.82427	-145.86848	115	11	73.82452	-145.86972
115	12	73.82467	-145.87094	115	13	73.82475	-145.87239
115	14	73.82484	-145.87323	115	15	73.82458	-145.87607
115	16	73.82430	-145.87981	115	17	73.82376	-145.88527
115	18	73.82323	-145.89061	115	19	73.82275	-145.89911
115	20	73.82217	-145.91032	115	21	73.82182	-145.92355
115	22	73.82172	-145.93826	115	23	73.82187	-145.95393
116	0	73.82234	-145.97006	116	1	73.82293	-145.98598
116	2	73.82358	-146.00124	116	3	73.82404	-146.01492
116	4	73.82421	-146.02666	116	5	73.82407	-146.03674
116	6	73.82361	-146.04585	116	7	73.82285	-146.05507
116	8	73.82201	-146.06480	116	9	73.82112	-146.07561
116	10	73.82044	-146.08728	116	11	73.81982	-146.09944
116	12	73.81934	-146.11221	116	13	73.81885	-146.12462
116	14	73.81825	-146.13637	116	15	73.81764	-146.14755
116	16	73.81676	-146.15837	116	17	73.81570	-146.16911
116	18	73.81451	-146.18028	116	19	73.81322	-146.19238
116	20	73.81194	-146.20560	116	21	73.81068	-146.22009
116	22	73.80967	-146.23616	116	23	73.80878	-146.25325
117	0	73.80795	-146.27068	117	1	73.80725	-146.28769
117	2	73.80656	-146.30470	117	3	73.80586	-146.32045
117	4	73.80505	-146.33607	117	5	73.80409	-146.35071
117	6	73.80302	-146.36441	117	7	73.80183	-146.37819
117	8	73.80056	-146.39038	117	9	73.79931	-146.40213
117	10	73.79794	-146.41214	117	11	73.79664	-146.42046
117	12	73.79524	-146.42624	117	13	73.79389	-146.43021
117	14	73.79245	-146.43324	117	15	73.79090	-146.43338
117	16	73.78935	-146.43423	117	17	73.78770	-146.43410
117	18	73.78601	-146.43384	117	19	73.78430	-146.43332
117	20	73.78255	-146.43434	117	21	73.78076	-146.43561
117	22	73.77904	-146.43639	117	23	73.77732	-146.43721

J. Day	hour	long	lat	J. Day	hour	long	lat
118	0	73.77573	-146.43660	118	1	73.77423	-146.43457
118	2	73.77293	-146.43253	118	3	73.77173	-146.42975
118	4	73.77071	-146.42670	118	5	73.77009	-146.42584
118	6	73.76948	-146.42366	118	7	73.76908	-146.42076
118	8	73.76882	-146.41917	118	9	73.76869	-146.41727
118	10	73.76853	-146.41661	118	11	73.76836	-146.41629
118	12	73.76824	-146.41661	118	13	73.76801	-146.41728
118	14	73.76774	-146.41780	118	15	73.76743	-146.41747
118	16	73.76699	-146.41711	118	17	73.76642	-146.41656
118	18	73.76575	-146.41435	118	19	73.76409	-146.41159
118	20	73.76420	-146.40718	118	21	73.76349	-146.40263
118	22	73.76286	-146.39859	118	23	73.76225	-146.39328
119	0	73.76179	-146.38963	119	1	73.76145	-146.38864
119	2	73.76122	-146.38913	119	3	73.76107	-146.38908
119	4	73.76103	-146.38953	119	5	73.76102	-146.39012
119	6	73.76113	-146.39221	119	7	73.76118	-146.39313
119	8	73.76125	-146.39413	119	9	73.76125	-146.39400
119	10	73.76131	-146.39388	119	11	73.76136	-146.39296
119	12	73.76138	-146.39163	119	13	73.76143	-146.38992
119	14	73.76148	-146.38896	119	15	73.76154	-146.38878
119	16	73.76170	-146.39021	119	17	73.76193	-146.39302
119	18	73.76229	-146.39697	119	19	73.76284	-146.40236
119	20	73.76351	-146.40819	119	21	73.76433	-146.41447
119	22	73.76525	-146.42070	119	23	73.76628	-146.42656
120	0	73.76729	-146.43164	120	1	73.76817	-146.43579
120	2	73.76892	-146.43909	120	3	73.76949	-146.44144
120	4	73.76992	-146.44373	120	5	73.77010	-146.44487
120	6	73.77013	-146.44458	120	7	73.77011	-146.44511
120	8	73.77006	-146.44460	120	9	73.76998	-146.44374
120	10	73.76999	-146.44337	120	11	73.77003	-146.44318
120	12	73.77010	-146.44312	120	13	73.77016	-146.44295
120	14	73.77023	-146.44324	120	15	73.77023	-146.44365
120	16	73.77023	-146.44397	120	17	73.77019	-146.44485
120	18	73.77027	-146.44591	120	19	73.77053	-146.44696
120	20	73.77097	-146.44827	120	21	73.77158	-146.44954
120	22	73.77235	-146.45100	120	23	73.77326	-146.45250
121	0	73.77426	-146.45425	121	1	73.77525	-146.45613
121	2	73.77617	-146.45798	121	3	73.77702	-146.45990
121	4	73.77761	-146.46136	121	5	73.77812	-146.46265
121	6	73.77843	-146.46355	121	7	73.77885	-146.46481
121	8	73.77926	-146.46587	121	9	73.77959	-146.46638
121	10	73.77986	-146.46658	121	11	73.78015	-146.46666
121	12	73.78036	-146.46664	121	13	73.78062	-146.46735
121	14	73.78072	-146.46806	121	15	73.78111	-146.47002
121	16	73.78164	-146.47293	121	17	73.78246	-146.47711
121	18	73.78392	-146.48334	121	19	73.78562	-146.49022
121	20	73.78787	-146.49821	121	21	73.79057	-146.50702
121	22	73.79369	-146.51617	121	23	73.79713	-146.52589

J. Day	hour	long	lat	J. Day	hour	long	lat
122	0	73.80083	-146.53557	122	1	73.80459	-146.54530
122	2	73.80834	-146.55499	122	3	73.81194	-146.56438
122	4	73.81525	-146.57333	122	5	73.81831	-146.58165
122	6	73.82107	-146.58913	122	7	73.82350	-146.59555
122	8	73.82557	-146.60051	122	9	73.82730	-146.60442
122	10	73.82867	-146.60690	122	11	73.82978	-146.60905
122	12	73.83064	-146.61057	122	13	73.83145	-146.61240
122	14	73.83229	-146.61452	122	15	73.83353	-146.61743
122	16	73.83475	-146.62022	122	17	73.83624	-146.62305
122	18	73.83806	-146.62602	122	19	73.84019	-146.62907
122	20	73.84243	-146.63197	122	21	73.84483	-146.63467
122	22	73.84721	-146.63741	122	23	73.84940	-146.63986
123	0	73.85133	-146.64246	123	1	73.85298	-146.64488
123	2	73.85425	-146.64729	123	3	73.85519	-146.64943
123	4	73.85577	-146.65146	123	5	73.85601	-146.65331

E. DROP TIME TABLE

drop number	unit	time GMT	Cal date	Julian day	drop number	unit	time GMT	Cal date	Julian day
A320A.001	NB	0559	3-20	79	A320A.002	NB	0622	3-20	79
A320A.003	NB	0648	3-20	79	A321A.001	NB	0200	3-21	80
A321A.002	NB	0219	3-21	80	A321A.003	NB	0237	3-21	80
A321A.004	NB	0300	3-21	80	A321A.005	NB	0458	3-21	80
A321A.006	NB	0519	3-21	80	A322A.001	NB	2019	3-22	81
A322A.002	NB	2036	3-22	81	A323A.001	NB	1938	3-23	82
A323A.002	NB	2010	3-23	82	A323A.003	NB	2034	3-23	82
A323A.004	NB	2056	3-23	82	A323A.005	NB	2117	3-23	82
A323A.006	NB	2138	3-23	82	A323A.007	NB	2205	3-23	82
A323B.001	NB	2235	3-23	82	A323B.002	NB	0003	3-24	83
A323B.003	NB	0024	3-24	83	A323B.004	NB	0045	3-24	83
A323B.005	NB	0104	3-24	83	A323B.006	NB	0123	3-24	83
A323B.007	NB	0142	3-24	83	A323C.001	NB	0203	3-24	83
A323C.002	NB	0227	3-24	83	A323C.003	NB	0235	3-24	83
A323C.004	NB	0243	3-24	83	A323C.005	NB	0246	3-24	83
A323C.006	NB	0250	3-24	83	A323C.007	NB	0254	3-24	83
A323C.008	NB	0258	3-24	83	A323C.009	NB	0302	3-24	83
A323C.010	NB	0306	3-24	83	A324A.001	NB	1922	3-24	83
A324A.002	NB	1934	3-24	83	A324A.003	NB	1951	3-24	83
A324A.004	NB	2003	3-24	83	A324A.005	NB	2015	3-24	83
A324A.006	NB	2027	3-24	83	A324A.007	NB	2043	3-24	83
A324A.008	NB	2045	3-24	83	A324A.009	NB	2100	3-24	83
A324A.010	NB	2118	3-24	83	A324A.011	NB	2130	3-24	83
A324A.012	NB	2141	3-24	83	A324A.013	NB	2150	3-24	83
A324A.014	NB	2201	3-24	83	A324A.015	NB	2211	3-24	83
A324B.001	NB	2230	3-24	83	A324B.002	NB	2240	3-24	83
A324B.003	NB	2328	3-24	83	A324B.004	NB	2338	3-24	83
A324B.005	NB	2350	3-24	83	A324B.006	NB	0012	3-25	84
A324B.007	NB	0031	3-25	84	A324B.008	NB	0053	3-25	84
A325A.009	NB	0045	3-26	85	A325A.010	NB	0055	3-26	85
A326A.001	NB	1952	3-26	85	A326A.002	NB	2028	3-26	85
A326A.003	NB	2059	3-26	85	A326A.004	NB	2218	3-26	85
A326A.005	NB	2255	3-26	85	A326A.006	NB	2358	3-26	85
A326B.001	NB	0453	3-27	86	A326B.002	NB	0521	3-27	86
A326B.003	NB	0544	3-27	86	A326B.004	NB	0602	3-27	86
A326B.005	NB	0623	3-27	86	A326B.006	NB	0644	3-27	86
A326C.001	NB	0707	3-27	86	A326C.002	NB	0727	3-27	86
A326C.003	NB	0747	3-27	86	A327A.001	NB	1815	3-27	86
A327A.002	NB	1836	3-27	86	A327A.003	NB	1855	3-27	86
A327A.004	NB	1914	3-27	86	A327A.005	NB	1932	3-27	86
A327A.006	NB	1951	3-27	86	A327B.001	NB	0220	3-28	87
A327B.002	NB	0242	3-28	87	A327B.003	NB	0454	3-28	87
A327B.004	NB	0512	3-28	87	A327B.005	NB	0532	3-28	87
A327B.006	NB	0552	3-28	87	A328A.001	NB	1754	3-28	87
A328A.002	NB	1812	3-28	87	A328A.003	NB	1836	3-28	87
A328A.004	NB	1846	3-28	87	A328A.005	NB	1852	3-28	87
A328A.006	NB	1901	3-28	87	A328A.008	NB	1918	3-28	87
A328A.009	NB	1941	3-28	87	A328A.010	NB	1958	3-28	87
A328A.011	NB	2015	3-28	87	A328A.012	NB	2034	3-28	87
A328A.013	NB	2243	3-28	87	A328A.014	NB	2302	3-28	87

drop number	unit	time GMT	Cal date	Julian day	drop number	unit	time GMT	Cal date	Julian day
A328A.015	NB	2328	3-28	87	A328A.016	NB	0011	3-29	88
A328A.017	NB	0034	3-29	88	A328A.018	NB	0057	3-29	88
A328A.019	NB	0120	3-29	88	A328A.020	NB	0139	3-29	88
A328A.021	NB	0205	3-29	88	A328A.022	NB	0236	3-29	88
A329A.001	MC	2237	3-29	88	A329A.002	MC	2302	3-29	88
A329A.003	MC	2324	3-29	88	A329A.004	MC	0014	3-30	89
A329A.005	MC	0041	3-30	89	A329A.006	MC	0105	3-30	89
A329A.007	MC	0128	3-30	89	A329B.001	MC	0150	3-30	89
A329B.002	MC	0213	3-30	89	A329B.003	MC	0232	3-30	89
A329B.004	MC	0401	3-30	89	A329B.005	MC	0424	3-30	89
A329B.006	MC	0448	3-30	89	A329C.001	NB	0607	3-30	89
A329C.002	NB	0627	3-30	89	A330A.001	MC	1803	3-30	89
A330A.002	MC	1850	3-30	89	A330A.003	MC	1900	3-30	89
A330A.004	MC	1950	3-30	89	A330A.005	MC	2021	3-30	89
A330A.006	MC	2027	3-30	89	A330B.001	MC	2209	3-30	89
A330B.002	MC	2230	3-30	89	A330B.003	MC	2255	3-30	89
A330B.004	MC	2317	3-30	89	A330B.005	MC	2340	3-30	89
A330B.006	MC	2359	3-30	89	A330C.001	NB	0143	3-31	90
A330C.002	NB	0258	3-31	90	A331A.001	MC	0304	4-01	91
A331A.002	MC	0429	4-01	91	A331A.003	MC	0456	4-01	91
A331A.004	MC	0525	4-01	91	A331A.005	MC	0545	4-01	91
A331A.006	MC	0616	4-01	91	A401A.001	NB	2014	4-01	91
A401A.002	NB	2035	4-01	91	A401A.003	MC	2053	4-01	91
A401A.004	NB	2230	4-01	91	A401A.005	NB	2252	4-01	91
A401A.006	NB	2311	4-01	91	A401B.001	NB	0009	4-02	92
A401B.002	NB	0028	4-02	92	A401B.003	MC	0227	4-02	92
A401B.004	MC	0244	4-02	92	A401B.005	MC	0300	4-02	92
A401B.006	MC	0402	4-02	92	A401B.007	MC	0419	4-02	92
A401B.008	MC	0437	4-02	92	A401B.009	MC	0452	4-02	92
A401B.010	MC	0506	4-02	92	A401B.011	MC	0521	4-02	92
A401B.012	MC	0540	4-02	92	A401C.001	MC	0559	4-02	92
A401C.002	MC	0623	4-02	92	A401C.003	MC	0645	4-02	92
A401C.004	MC	0706	4-02	92	A402A.001	NB	1910	4-02	92
A402A.002	NB	1944	4-02	92	A402A.003	NB	2007	4-02	92
A402A.004	NB	2235	4-02	92	A402A.005	NB	2313	4-02	92
A402A.006	NB	2323	4-02	92	A402A.007	NB	2343	4-02	92
A402B.001	MC	0152	4-03	93	A402B.002	MC	0206	4-03	93
A402B.003	MC	0220	4-03	93	A402B.004	MC	0252	4-03	93
A402B.006	MC	0425	4-03	93	A402B.007	MC	0440	4-03	93
A403A.001	MC	2011	4-03	93	A403A.002	MC	2027	4-03	93
A403A.003	MC	2048	4-03	93	A403A.004	MC	2217	4-03	93
A403A.005	MC	2229	4-03	93	A403A.006	MC	2238	4-03	93
A403A.007	MC	2307	4-03	93	A403A.008	MC	2315	4-03	93
A403A.009	MC	2323	4-03	93	A403A.010	MC	2331	4-03	93
A403A.011	MC	2345	4-03	93	A403A.012	MC	2353	4-03	93
A403A.013	MC	0001	4-04	94	A403A.014	MC	0009	4-04	94
A403A.015	MC	0018	4-04	94	A403A.016	MC	0025	4-04	94
A403A.017	MC	0033	4-04	94	A403A.018	MC	0041	4-04	94
A403A.019	MC	0051	4-04	94	A403A.020	MC	0058	4-04	94
A403A.021	MC	0106	4-04	94	A403A.022	MC	0113	4-04	94

drop number	unit	time GMT	Cal date	Julian day	drop number	unit	time GMT	Cal date	Julian day
A417A.001	NB	1837	4-17	107	A417A.002	NB	1849	4-17	107
A417A.003	NB	1909	4-17	107	A417A.004	NB	1915	4-17	107
A417A.005	NB	1922	4-17	107	A417A.006	NB	1929	4-17	107
A417A.007	NB	1937	4-17	107	A417A.008	NB	1944	4-17	107
A417A.009	NB	1952	4-17	107	A417A.010	NB	1959	4-17	107
A417A.011	NB	2006	4-17	107	A417A.012	NB	2014	4-17	107
A417A.013	NB	2028	4-17	107	A417B.001	NB	2056	4-17	107
A417B.002	NB	2114	4-17	107	A417B.003	NB	2125	4-17	107
A417B.004	NB	2135	4-17	107	A417B.005	NB	2144	4-17	107
A417B.006	NB	2154	4-17	107	A417B.007	NB	2203	4-17	107
A417B.008	NB	2212	4-17	107	A417B.009	NB	2220	4-17	107
A417B.010	NB	2229	4-17	107	A417B.011	NB	2237	4-17	107
A417B.012	NB	2246	4-17	107	A417B.013	NB	2254	4-17	107
A417C.001	NB	2324	4-17	107	A417C.002	NB	2343	4-17	107
A417C.003	NB	2352	4-17	107	A417C.004	NB	0000	4-18	108
A417C.005	NB	0009	4-18	108	A417C.006	NB	0018	4-18	108
A417C.007	NB	0027	4-18	108	A417C.008	NB	0036	4-18	108
A417C.009	NB	0045	4-18	108	A417C.010	NB	0055	4-18	108
A417C.011	NB	0104	4-18	108	A417C.012	NB	0121	4-18	108
A417C.013	NB	0136	4-18	108	A417D.001	NB	0209	4-18	108
A417D.002	NB	0231	4-18	108	A417D.003	NB	0245	4-18	108
A417D.004	NB	0255	4-18	108	A417D.005	NB	0304	4-18	108
A417D.006	NB	0315	4-18	108	A417D.007	NB	0327	4-18	108
A417D.008	NB	0342	4-18	108	A417D.009	NB	0417	4-18	108
A417D.010	NB	0429	4-18	108	A417D.011	NB	0340	4-18	108
A417D.012	NB	0451	4-18	108	A417D.013	NB	0502	4-18	108
A417E.001	NB	0518	4-18	108	A417E.002	NB	0540	4-18	108
A417E.003	NB	0545	4-18	108	A417E.004	NB	0550	4-18	108
A417E.005	NB	0555	4-18	108	A417E.006	NB	0602	4-18	108
A417E.007	NB	0609	4-18	108	A417E.008	NB	0616	4-18	108
A417E.009	NB	0622	4-18	108	A417E.010	NB	0628	4-18	108
A417E.011	NB	0633	4-18	108	A417E.012	NB	0639	4-18	108
A417E.013	NB	0650	4-18	108	A417E.014	NB	0659	4-18	108
A417E.015	NB	0705	4-18	108	A417E.016	NB	0711	4-18	108
A417E.017	NB	0717	4-18	108	A417E.018	NB	0722	4-18	108
A417E.019	NB	0727	4-18	108	A417E.020	NB	0731	4-18	108
A417E.021	NB	0737	4-18	108	A417E.022	NB	0741	4-18	108
A417E.023	NB	0745	4-18	108	A417E.024	NB	0750	4-18	108
A417F.001	NB	0800	4-18	108	A417F.002	NB	0821	4-18	108
A417F.003	NB	0827	4-18	108	A417F.004	NB	0832	4-18	108
A417F.005	NB	0837	4-18	108	A417F.006	NB	0843	4-18	108
A417F.007	NB	0849	4-18	108	A417F.008	NB	0854	4-18	108
A417F.009	NB	0900	4-18	108	A417F.010	NB	0905	4-18	108
A417F.011	NB	0912	4-18	108	A417F.012	NB	0920	4-18	108
A417F.013	NB	0926	4-18	108	A417F.014	NB	0932	4-18	108
A417F.015	NB	0938	4-18	108	A417F.016	NB	0944	4-18	108
A417F.017	NB	0950	4-18	108	A417F.018	NB	0956	4-18	108
A418A.001	MC	1454	4-18	108	A418A.002	MC	1510	4-18	108
A418A.003	NB	1844	4-18	108	A418A.004	NB	1907	4-18	108
A418A.005	NB	1916	4-18	108	A418A.006	NB	1926	4-18	108

drop number	unit	time GMT	Cal date	Julian day	drop number	unit	time GMT	Cal date	Julian day
A418A.007	NB	1942	4-18	108	A418A.008	NB	2003	4-18	108
A418A.009	NB	2020	4-18	108	A418A.010	NB	2028	4-18	108
A418A.011	NB	2037	4-18	108	A418A.012	NB	2044	4-18	108
A418A.013	NB	2052	4-18	108	A418A.014	NB	2059	4-18	108
A418A.015	NB	2107	4-18	108	A418A.016	NB	2115	4-18	108
A418B.001	NB	2129	4-18	108	A418B.002	NB	2151	4-18	108
A418B.003	NB	2159	4-18	108	A418B.004	NB	2208	4-18	108
A418B.005	MC	2319	4-18	108	A418B.006	MC	2323	4-18	108
A418B.007	NB	0028	4-19	109	A418B.008	NB	0051	4-19	109
A418B.009	NB	0101	4-19	109	A418B.010	NB	0110	4-19	109
A418B.011	NB	0120	4-19	109	A418B.012	NB	0129	4-19	109
A418B.013	NB	0138	4-19	109	A418B.014	NB	0146	4-19	109
A418B.015	NB	0156	4-19	109	A418B.016	NB	0204	4-19	109
A418B.017	NB	0213	4-19	109	A419A.001	NB	1757	4-19	109
A419A.002	NB	1834	4-19	109	A419A.003	NB	1844	4-19	109
A419A.004	NB	1851	4-19	109	A419A.005	NB	1859	4-19	109
A419A.006	NB	1926	4-19	109	A419A.007	NB	1935	4-19	109
A419A.008	NB	1945	4-19	109	A419A.009	NB	1953	4-19	109
A419A.010	NB	2001	4-19	109	A419A.011	NB	2009	4-19	109
A419A.012	NB	2017	4-19	109	A419A.013	NB	2025	4-19	109
A419A.014	NB	2033	4-19	109	A419A.015	NB	2041	4-19	109
A419A.016	NB	2049	4-19	109	A419A.017	NB	2058	4-19	109
A419A.018	NB	2106	4-19	109	A419A.019	NB	2113	4-19	109
A419A.020	NB	2121	4-19	109	A419B.001	NB	2134	4-19	109
A419B.002	NB	2156	4-19	109	A419B.003	NB	2204	4-19	109
A419B.004	NB	2219	4-19	109	A419B.005	NB	2226	4-19	109
A419B.006	NB	2234	4-19	109	A419B.007	NB	2240	4-19	109
A419B.008	NB	2248	4-19	109	A419B.009	NB	2255	4-19	109
A419B.010	NB	2305	4-19	109	A419B.011	NB	2314	4-19	109
A419B.012	NB	2328	4-19	109	A419B.013	NB	2341	4-19	109
A419B.014	NB	2351	4-19	109	A419B.015	NB	0000	4-20	110
A419B.016	NB	0009	4-20	110	A419B.017	NB	0018	4-20	110
A419B.018	NB	0026	4-20	110	A419B.019	NB	0037	4-20	110
A419B.020	NB	0045	4-20	110	A419B.021	NB	0054	4-20	110
A419C.001	NB	0113	4-20	110	A419C.002	NB	0136	4-20	110
A419C.003	NB	0149	4-20	110	A419C.004	NB	0157	4-20	110
A419C.005	NB	0205	4-20	110	A419C.006	NB	0213	4-20	110
A419C.007	NB	0222	4-20	110	A419C.008	NB	0230	4-20	110
A419C.009	NB	0238	4-20	110	A419C.010	NB	0245	4-20	110
A419C.011	NB	0252	4-20	110	A419C.012	NB	0259	4-20	110
A419C.013	NB	0306	4-20	110	A419C.014	NB	0313	4-20	110
A419C.015	NB	0320	4-20	110	A419C.016	NB	0327	4-20	110
A419C.017	NB	0334	4-20	110	A419C.018	NB	0343	4-20	110
A419D.001	NB	0424	4-20	110	A419D.002	NB	0446	4-20	110
A419D.003	NB	0455	4-20	110	A419D.004	NB	0502	4-20	110
A419D.005	NB	0509	4-20	110	A419D.006	NB	0518	4-20	110
A419D.007	NB	0529	4-20	110	A419D.008	NB	0539	4-20	110
A419D.009	NB	0546	4-20	110	A419D.010	NB	0555	4-20	110
A419D.011	NB	0604	4-20	110	A419D.012	NB	0613	4-20	110
A419D.013	NB	0620	4-20	110	A419D.014	NB	0630	4-20	110

drop number	unit	time GMT	Cal date	Julian day	drop number	unit	time GMT	Cal date	Julian day
A419D.015	NB	0638	4-20	110	A419D.016	NB	0644	4-20	110
A419D.017	NB	0706	4-20	110	A419D.018	NB	0716	4-20	110
A419D.019	NB	0725	4-20	110	A419E.001	NB	0740	4-20	110
A419E.002	NB	0801	4-20	110	A419E.003	NB	0809	4-20	110
A419E.004	NB	0816	4-20	110	A419E.005	NB	0825	4-20	110
A419E.006	NB	0832	4-20	110	A419E.007	NB	0839	4-20	110
A419E.008	NB	0846	4-20	110	A419E.009	NB	0853	4-20	110
A419E.010	NB	0900	4-20	110	A419E.011	NB	0908	4-20	110
A419E.012	NB	0916	4-20	110	A419E.013	NB	0923	4-20	110
A419E.014	NB	0930	4-20	110	A419E.015	NB	0937	4-20	110
A419E.016	NB	0945	4-20	110	A419E.017	NB	0952	4-20	110
A419E.018	NB	1000	4-20	110	A419E.019	NB	1008	4-20	110
A419E.020	NB	1017	4-20	110	A420A.001	MC	1834	4-20	110
A420A.002	MC	1854	4-20	110	A420A.003	MC	1904	4-20	110
A420A.004	MC	1913	4-20	110	A420A.005	MC	1922	4-20	110
A420A.006	MC	1931	4-20	110	A420A.007	MC	1940	4-20	110
A420A.008	MC	1949	4-20	110	A420A.009	MC	1958	4-20	110
A420A.010	MC	2018	4-20	110	A420B.001	MC	2055	4-20	110
A420B.002	MC	2140	4-20	110	A420C.001	MC	2218	4-20	110
A420C.002	NB	0316	4-21	111	A421A.001	NB	2029	4-21	111
A421A.002	NB	2330	4-21	111	A421A.003	NB	2351	4-21	111
A421A.004	NB	0008	4-22	112	A421B.001	NB	0051	4-22	112
A421B.002	NB	0136	4-22	112	A421B.003	NB	0156	4-22	112
A421B.004	NB	0211	4-22	112	A421B.005	NB	0223	4-22	112
A421B.006	NB	0235	4-22	112	A421B.007	NB	0245	4-22	112
A421B.008	NB	0254	4-22	112	A421B.009	NB	0358	4-22	112
A421C.001	NB	0437	4-22	112	A421C.002	NB	0504	4-22	112
A421C.003	NB	0516	4-22	112	A421C.004	NB	0526	4-22	112
A421C.005	NB	0541	4-22	112	A421C.006	NB	0551	4-22	112
A421C.007	NB	0601	4-22	112	A421C.008	NB	0610	4-22	112
A421C.009	NB	0620	4-22	112	A421C.010	NB	0629	4-22	112
A421C.011	NB	0640	4-22	112	A421C.012	NB	0650	4-22	112
A421C.013	NB	0659	4-22	112	A421D.001	NB	0728	4-22	112
A421D.002	NB	0744	4-22	112	A421D.003	NB	0753	4-22	112
A421D.004	NB	0803	4-22	112	A421D.005	NB	0812	4-22	112
A421D.006	NB	0822	4-22	112	A421D.007	NB	0832	4-22	112
A421D.008	NB	0841	4-22	112	A421D.009	NB	0852	4-22	112
A421D.010	NB	0902	4-22	112	A421D.011	NB	0912	4-22	112
A421D.012	NB	0922	4-22	112	A421D.013	NB	0932	4-22	112
A422A.001	NB	0951	4-22	112	A422A.002	NB	1009	4-22	112
A422A.003	NB	1019	4-22	112	A422A.004	NB	1030	4-22	112
A422A.005	NB	1042	4-22	112	A422A.006	NB	1052	4-22	112
A422A.007	NB	1111	4-22	112	A422A.008	NB	1123	4-22	112
A422A.009	NB	1132	4-22	112	A422A.010	NB	1141	4-22	112
A422A.011	NB	1150	4-22	112	A422A.012	NB	1159	4-22	112
A422A.013	NB	1208	4-22	112	A422A.014	NB	1217	4-22	112
A422B.001	NB	1249	4-22	112	A422B.002	NB	1310	4-22	112
A422B.003	NB	1319	4-22	112	A422B.004	NB	1329	4-22	112
A422B.005	NB	1338	4-22	112	A422B.006	NB	1346	4-22	112
A422B.007	NB	1355	4-22	112	A422B.008	NB	1404	4-22	112

drop number	unit	time GMT	Cal date	Julian day	drop number	unit	time GMT	Cal date	Julian day
A422B.009	NB	1416	4-22	112	A422B.010	NB	1422	4-22	112
A422B.011	NB	1431	4-22	112	A422B.012	NB	1439	4-22	112
A422B.013	NB	1448	4-22	112	A422B.014	NB	1457	4-22	112
A422B.015	NB	1506	4-22	112	A422C.001	NB	1532	4-22	112
A422C.002	NB	1542	4-22	112	A422C.003	NB	1615	4-22	112
A422C.004	NB	1621	4-22	112	A422C.005	NB	1626	4-22	112
A422C.006	NB	1633	4-22	112	A422C.007	NB	1640	4-22	112
A422C.008	NB	1657	4-22	112	A422C.009	NB	1712	4-22	112
A422C.010	NB	1719	4-22	112	A422C.011	NB	1726	4-22	112
A422C.012	NB	1733	4-22	112	A422C.013	NB	1742	4-22	112
A422C.014	NB	1748	4-22	112	A422C.015	NB	1755	4-22	112
A422C.016	NB	1803	4-22	112	A422C.017	NB	1810	4-22	112
A422C.018	NB	1817	4-22	112	A422C.019	NB	1825	4-22	112
A422C.020	NB	1837	4-22	112	A422D.001	NB	1911	4-22	112
A422D.002	NB	1925	4-22	112	A422D.003	NB	1943	4-22	112
A422D.004	NB	1950	4-22	112	A422D.005	NB	1957	4-22	112
A422D.006	NB	2004	4-22	112	A422D.007	NB	2011	4-22	112
A422D.008	NB	2018	4-22	112	A422D.009	NB	2025	4-22	112
A422D.010	NB	2032	4-22	112	A422D.011	NB	2039	4-22	112
A422D.012	NB	2046	4-22	112	A422D.013	NB	2052	4-22	112
A422D.014	NB	2059	4-22	112	A422D.015	NB	2105	4-22	112
A422E.001	MC	2139	4-22	112	A422E.002	MC	2157	4-22	112
A422E.003	MC	2212	4-22	112	A422E.004	MC	2222	4-22	112
A422E.005	MC	2231	4-22	112	A422E.006	MC	2324	4-22	112
A422E.007	MC	2332	4-22	112	A422F.001	MC	2353	4-22	112
A422F.002	MC	0005	4-23	113	A422F.003	MC	0012	4-23	113
A422F.004	MC	0020	4-23	113	A422F.005	MC	0031	4-23	113
A422F.006	MC	0112	4-23	113	A422G.001	MC	0145	4-23	113
A422G.002	MC	0200	4-23	113	A422G.003	MC	0207	4-23	113
A422G.004	MC	0214	4-23	113	A422G.005	MC	0221	4-23	113
A422G.006	MC	0228	4-23	113	A422G.007	MC	0235	4-23	113
A422G.008	MC	0243	4-23	113	A422G.009	MC	0309	4-23	113
A422G.010	MC	0316	4-23	113	A422G.011	MC	0322	4-23	113
A422G.012	MC	0328	4-23	113	A422G.013	MC	0336	4-23	113
A422G.014	MC	0343	4-23	113	A422H.001	MC	0428	4-23	113
A422H.002	MC	0450	4-23	113	A422H.003	MC	0516	4-23	113
A422H.004	MC	0528	4-23	113	A422H.005	MC	0553	4-23	113
A422H.006	MC	0602	4-23	113	A422I.001	MC	0622	4-23	113
A422I.002	MC	0637	4-23	113	A422I.003	MC	0704	4-23	113
A422I.004	MC	0711	4-23	113	A422I.005	MC	0720	4-23	113
A422I.006	MC	0748	4-23	113	A422I.007	MC	0758	4-23	113
A422J.001	MC	0843	4-23	113	A422J.002	MC	0911	4-23	113
A422J.003	MC	0938	4-23	113	A422J.004	NB	0958	4-23	113
A422J.005	NB	1013	4-23	113	A422J.006	NB	1021	4-23	113
A422J.007	NB	1030	4-23	113	A423A.001	NB	2240	4-23	113
A423A.002	NB	2247	4-23	113	A423A.003	NB	2342	4-23	113
A423A.004	NB	0016	4-24	114	A423A.005	NB	0022	4-24	114
A423A.006	NB	0028	4-24	114	A423A.007	MC	0136	4-24	114
A423A.008	MC	0151	4-24	114	A423B.001	MC	0240	4-24	114
A423B.002	MC	0303	4-24	114	A423B.003	MC	0337	4-24	114

drop number	unit	time GMT	Cal date	Julian day	drop number	unit	time GMT	Cal date	Julian day
A423C.001	MC	0441	4-24	114	A423C.002	MC	0456	4-24	114
A423C.003	MC	0515	4-24	114	A423C.004	MC	0546	4-24	114
A423C.005	MC	0610	4-24	114	A423C.006	MC	0625	4-24	114
A423C.007	MC	0637	4-24	114	A423D.001	MC	0703	4-24	114
A423D.002	MC	0727	4-24	114	A423D.003	MC	0753	4-24	114
A423E.001	MC	0845	4-24	114	A423E.002	MC	0847	4-24	114
A423E.003	NB	0900	4-24	114	A424A.001	NB	1829	4-24	114
A424A.002	NB	1845	4-24	114	A424A.003	NB	1901	4-24	114
A424A.004	NB	1916	4-24	114	A424A.005	NB	1938	4-24	114
A424A.006	NB	1956	4-24	114	A424A.007	NB	2015	4-24	114
A424B.001	MC	2105	4-24	114	A424B.002	MC	2122	4-24	114
A424B.003	MC	2140	4-24	114	A424B.004	MC	2155	4-24	114
A424B.005	MC	2226	4-24	114	A424B.006	MC	2243	4-24	114
A424C.001	MC	2301	4-24	114	A424C.002	MC	2327	4-24	114
A424C.003	MC	2354	4-24	114	A424D.001	MC	0024	4-25	115
A424D.002	MC	0052	4-25	115	A424D.003	MC	0059	4-25	115
A424D.004	MC	0128	4-25	115	A424E.001	MC	0155	4-25	115
A424E.002	MC	0207	4-25	115	A424E.003	MC	0231	4-25	115
A424E.004	MC	0302	4-25	115	A424F.001	MC	0335	4-25	115
A424F.002	MC	0349	4-25	115	A424F.003	MC	0357	4-25	115
A424F.004	MC	0413	4-25	115	A424F.005	MC	0438	4-25	115
A424G.001	NB	0631	4-25	115	A425A.001	NB	1730	4-25	115
A425A.002	NB	1748	4-25	115	A425A.003	NB	1807	4-25	115
A425A.004	NB	1827	4-25	115	A425A.005	NB	1846	4-25	115
A425A.006	NB	1902	4-25	115	A425A.007	NB	1920	4-25	115
A425B.001	NB	1941	4-25	115	A425B.002	NB	1956	4-25	115
A425B.003	NB	2017	4-25	115	A425B.004	NB	2032	4-25	115
A425B.005	NB	2057	4-25	115	A425B.006	NB	2115	4-25	115
A425B.007	NB	2133	4-25	115	A425B.008	NB	2149	4-25	115
A425B.009	NB	2205	4-25	115	A425C.001	NB	0001	4-26	116
A425C.002	NB	0020	4-26	116	A425C.003	NB	0039	4-26	116
A425C.004	NB	0101	4-26	116	A425C.005	NB	0118	4-26	116
A425C.006	NB	0134	4-26	116	A425C.007	NB	0151	4-26	116
A425D.001	NB	0222	4-26	116	A425D.002	NB	0238	4-26	116
A425D.003	NB	0255	4-26	116	A425D.004	NB	0312	4-26	116
A425D.005	NB	0328	4-26	116	A425D.006	NB	0345	4-26	116
A425D.007	NB	0422	4-26	116	A425E.001	NB	0441	4-26	116
A425E.002	NB	0500	4-26	116	A425E.003	NB	0517	4-26	116
A425E.004	NB	0534	4-26	116	A425E.005	NB	0556	4-26	116
A425E.006	NB	0613	4-26	116	A425E.007	NB	0630	4-26	116
A425F.001	NB	0648	4-26	116	A425F.002	NB	0702	4-26	116
A425F.003	NB	0718	4-26	116	A425F.004	NB	0735	4-26	116
A425F.005	NB	0751	4-26	116	A425F.006	NB	0808	4-26	116
A425F.007	NB	0825	4-26	116	A425G.001	NB	0848	4-26	116
A425G.002	NB	0900	4-26	116	A425G.003	NB	0915	4-26	116
A425G.004	NB	0935	4-26	116	A425G.005	NB	0954	4-26	116
A425G.006	NB	1011	4-26	116	A425G.007	NB	1027	4-26	116
A426A.001	NB	1703	4-26	116	A426A.002	NB	1721	4-26	116
A426A.003	NB	1736	4-26	116	A426A.004	NB	1754	4-26	116
A426A.005	NB	1810	4-26	116	A426A.006	NB	1827	4-26	116

F. REFERENCES

Caldwell, D. R., T. M. Dillon, and J. N. Moum (1986): The Rapid-Sampling Vertical Profiler: An Evaluation. J. of Atmos. and Oceanic. Tech. 2(4), 615-625.

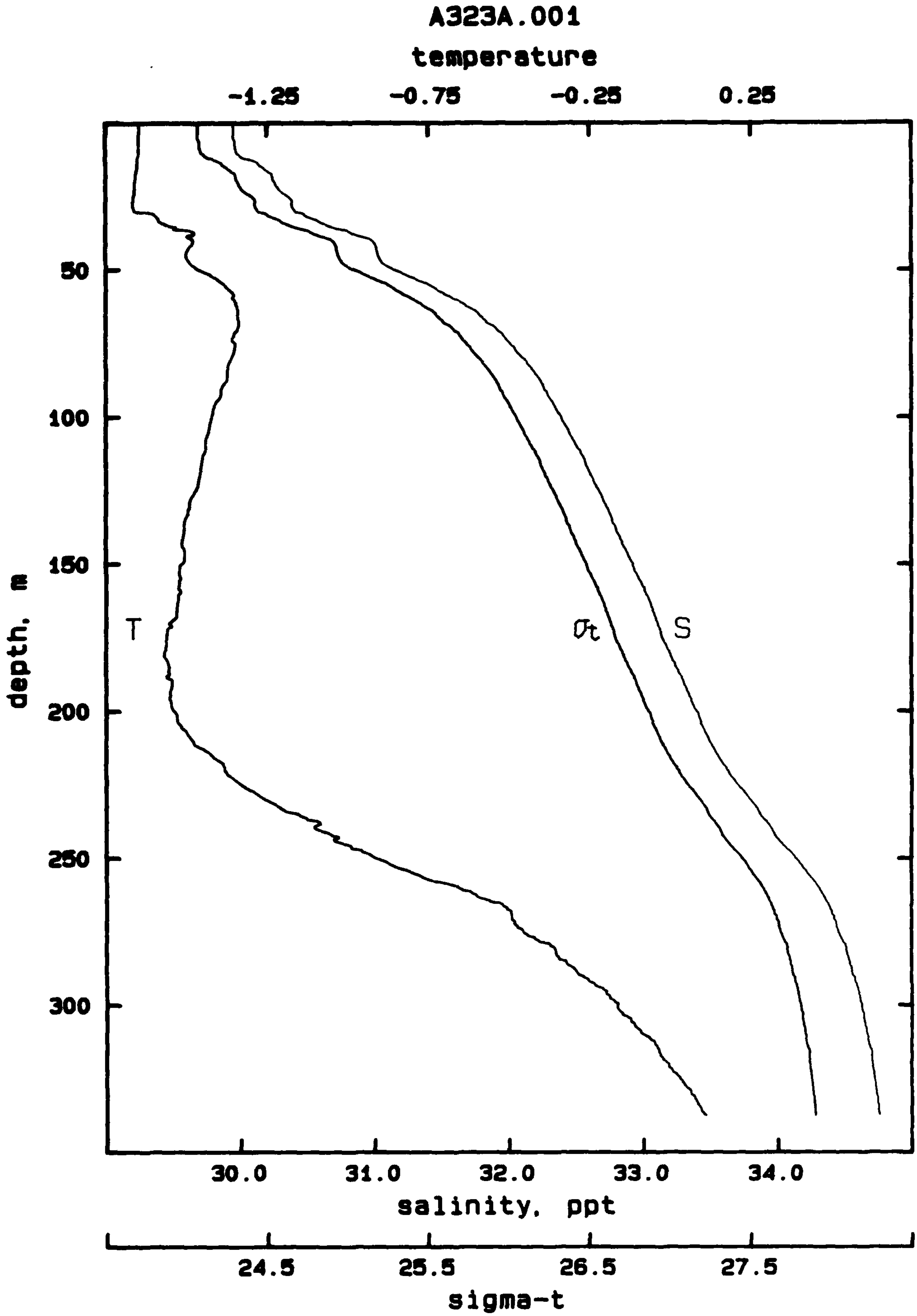
Head, M. J. (1983): The use of miniature four-electrode conductivity probes for high resolution measurement of turbulent density or temperature variations in salt-stratified water flows. PhD thesis, University of California, San Diego, 211 pp.

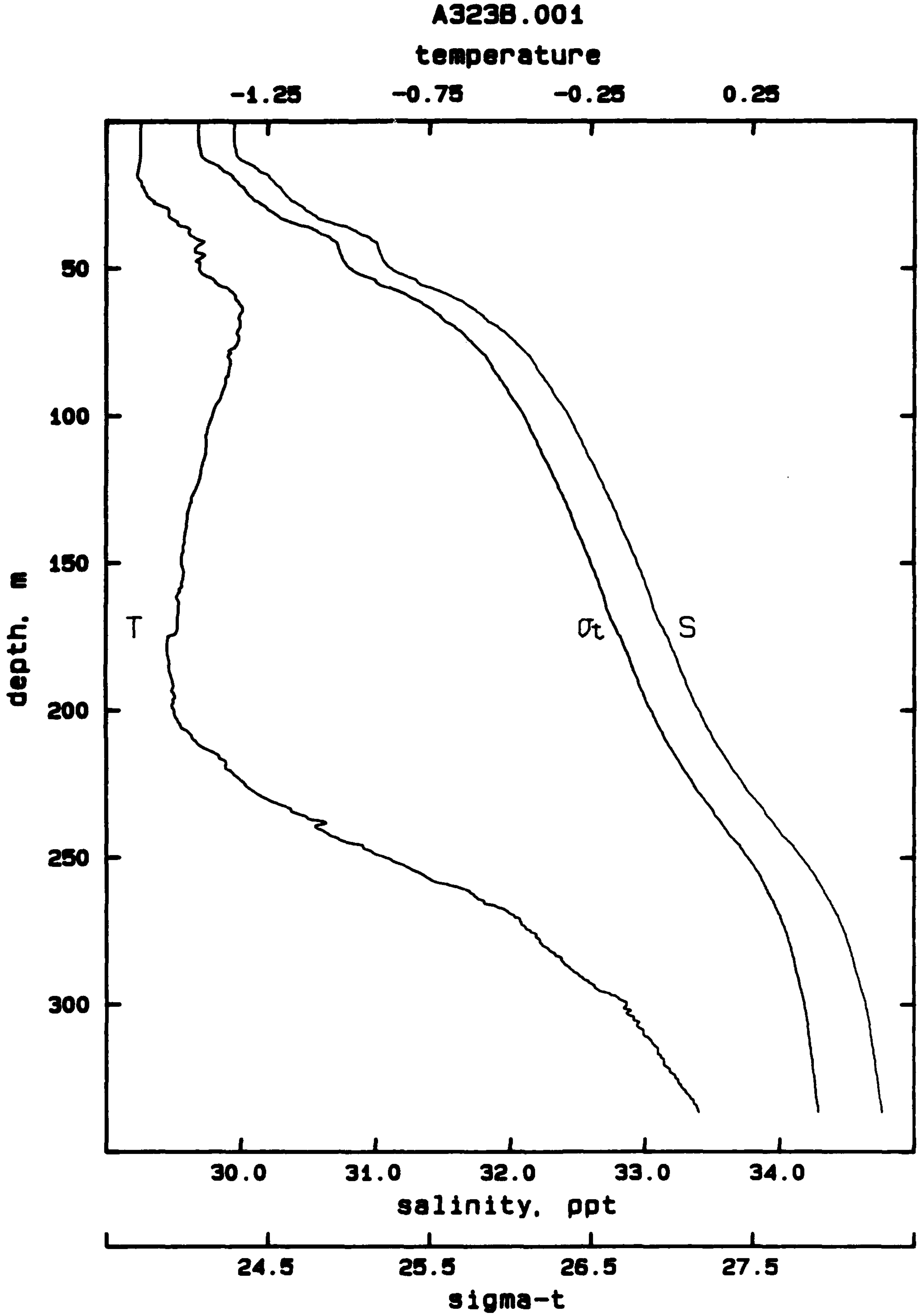
Osborn, T. R. and W. R. Crawford (1980): An airfoil probe for measuring turbulent velocity fluctuations in water. in Air-Sea Interactions, pp 369-386, Dobson, Hasse, and Davis, Ed., Plenum Press, 801pp.

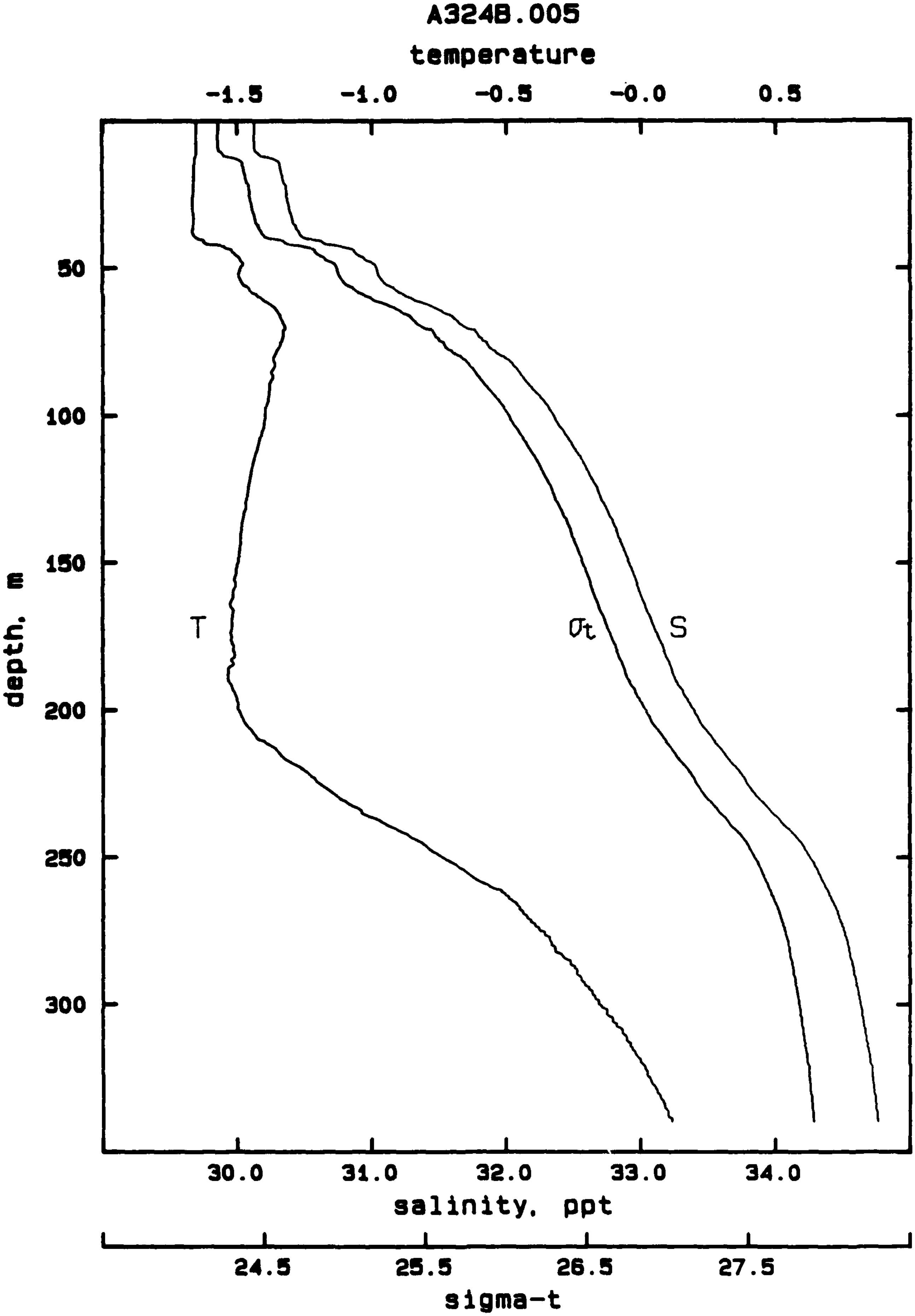
Shay, T. J. and M. C. Gregg (1986): Convectively driven turbulent mixing in the upper ocean. J. Phys. Oceanogr. 16(6), 1777-1798.

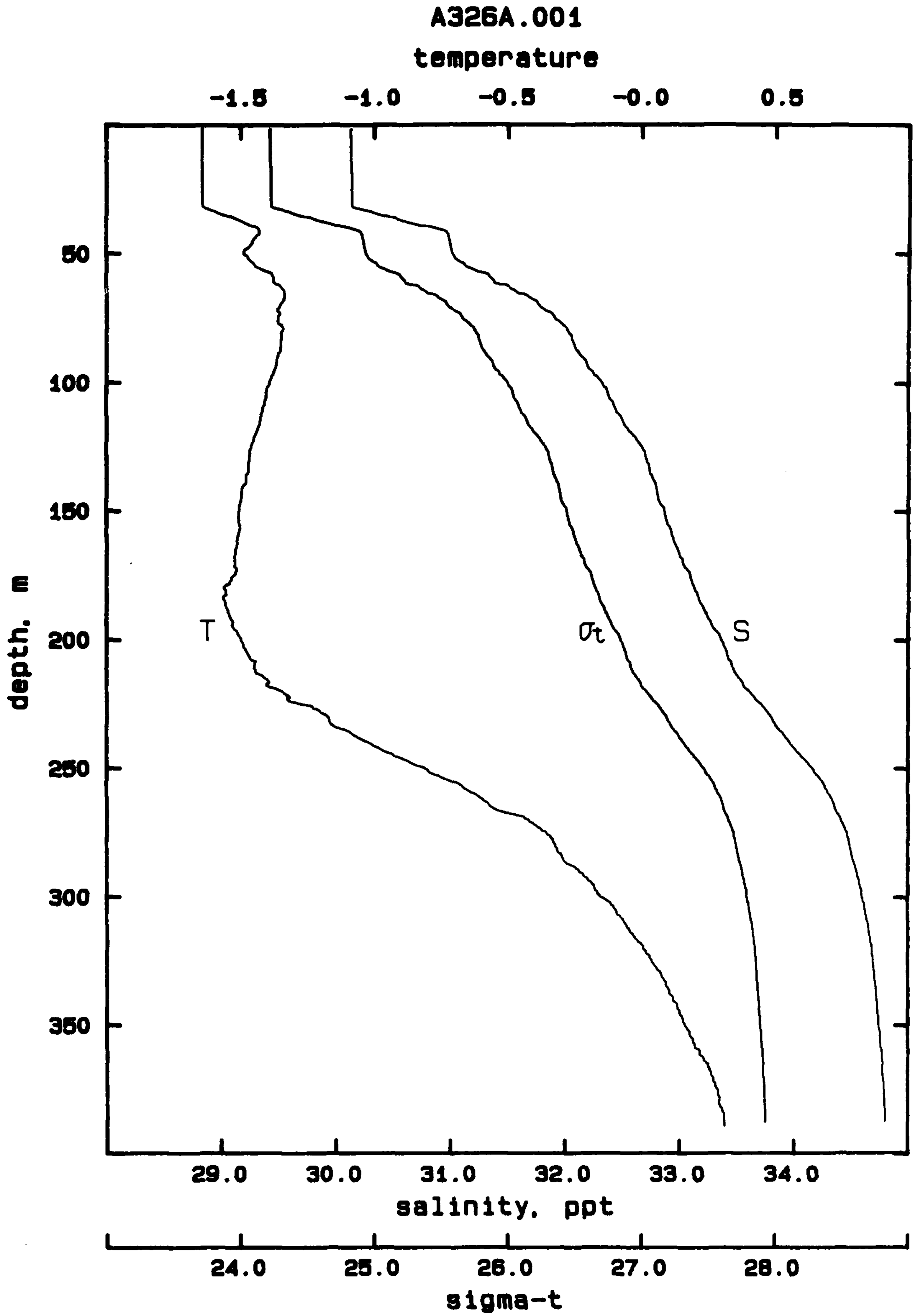
OBSERVATIONS:

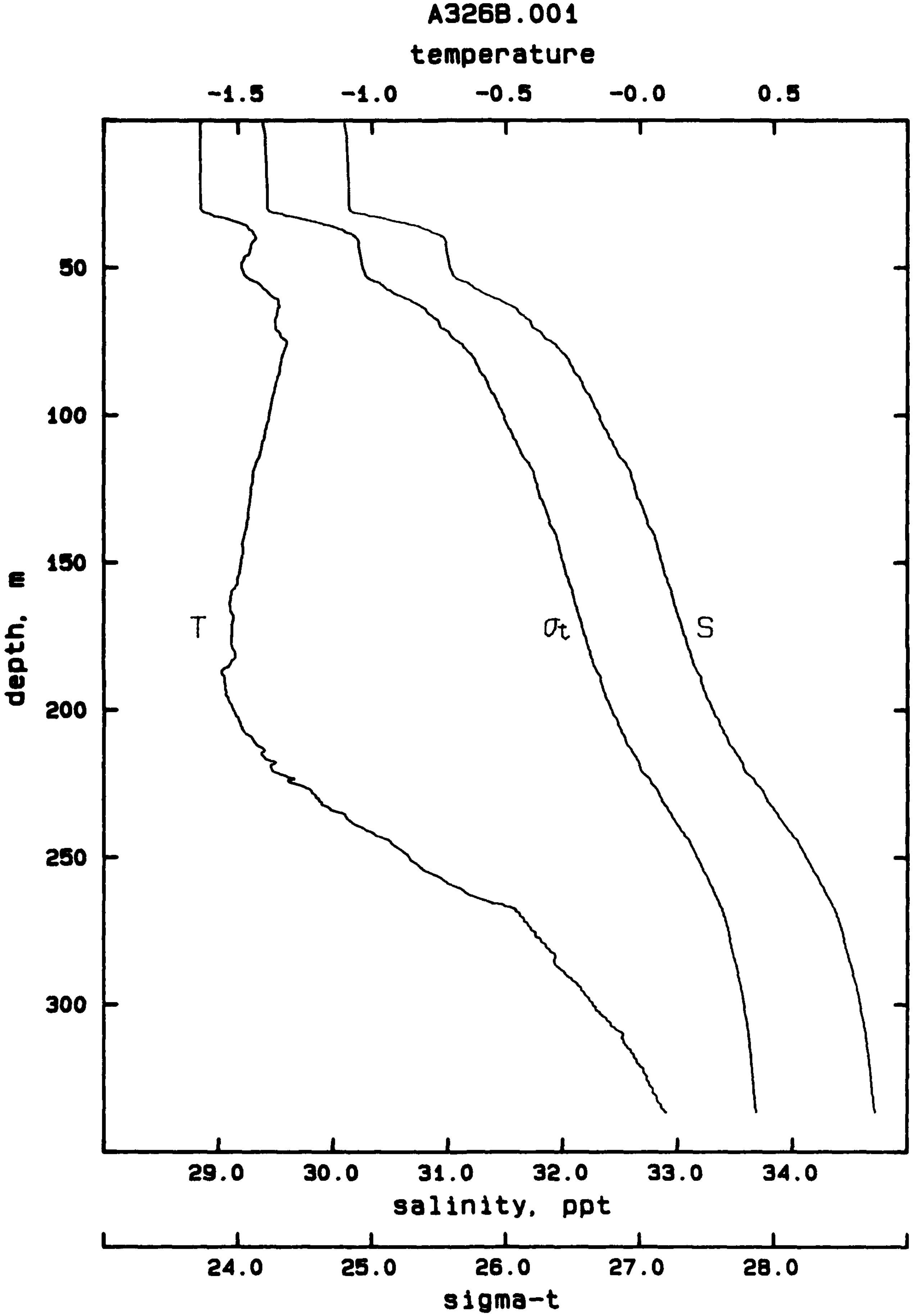
A. TEMPERATURE, SALINITY, AND SIGMA-T

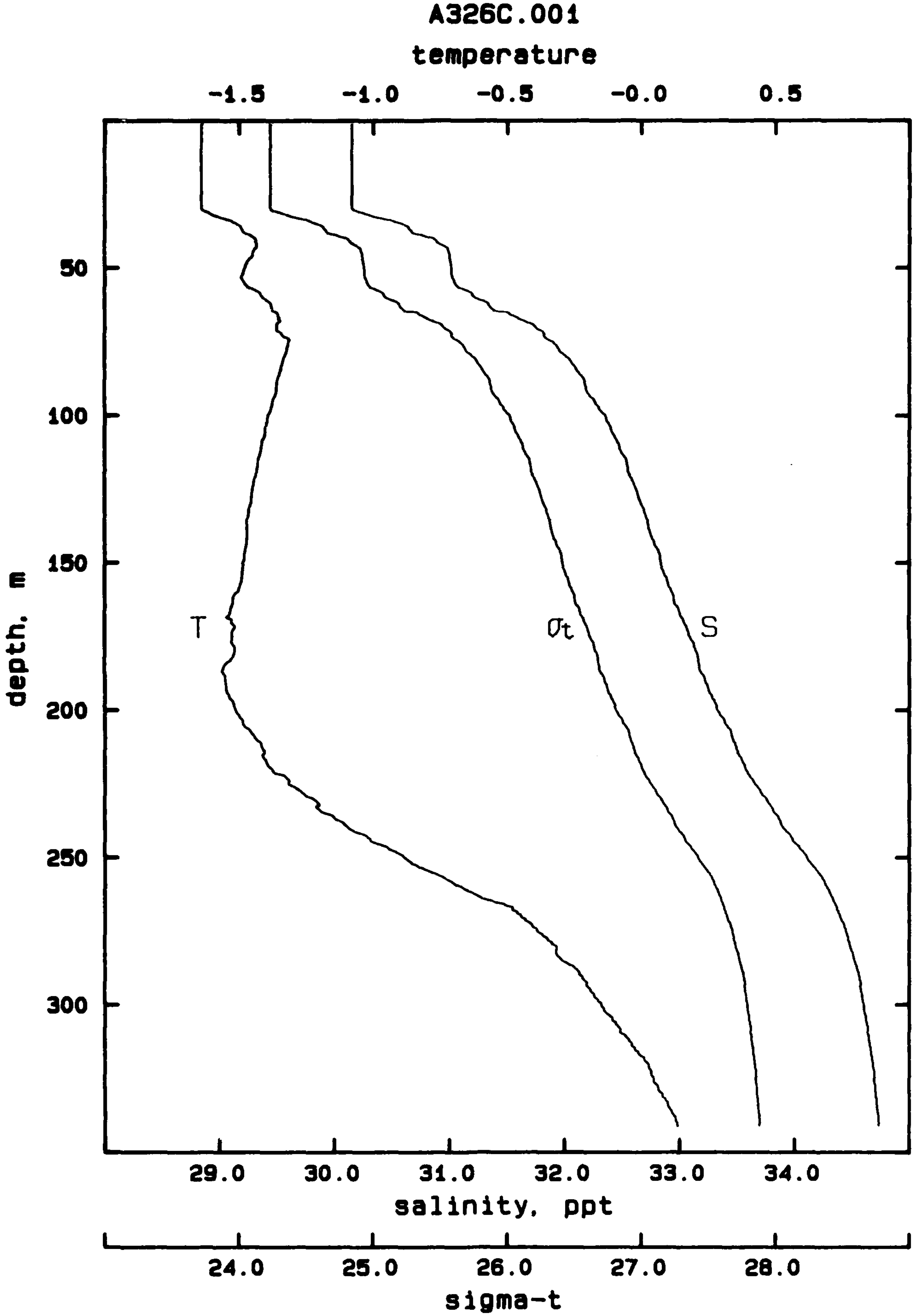

A323A.001
temperature
-1.25
-0.75
-0.25
0.25
depth, m
50
100
150
200
250
300
T
σt
S
30.0
31.0
32.0
33.0
34.0
salinity, ppt
24.5
25.5
26.5
27.5
sigma-t

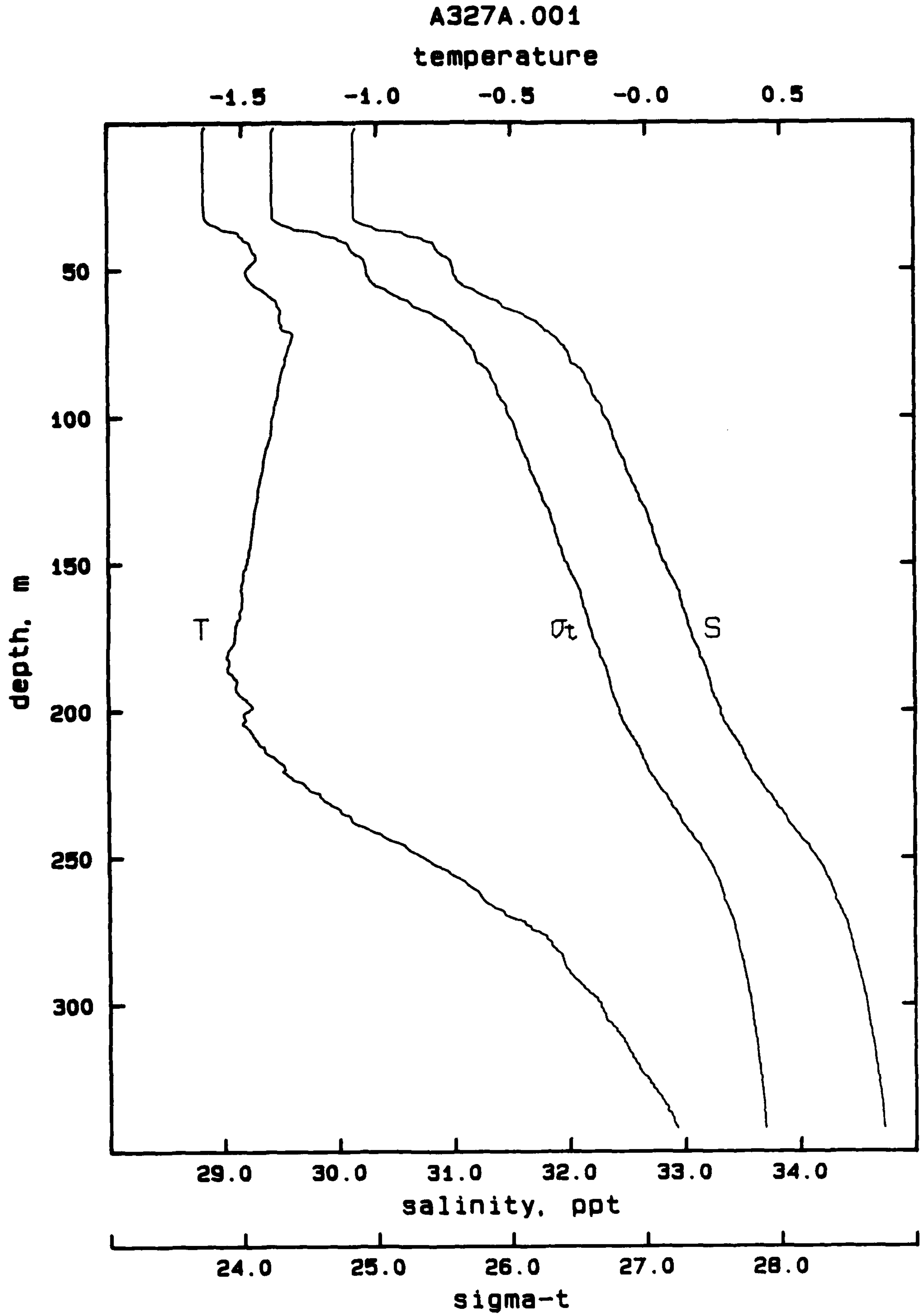

A323B.001
temperature
-1.25
-0.75
-0.25
0.25
50
100
150
200
250
300
depth, m
T
σt
S
30.0
31.0
32.0
33.0
34.0
salinity, ppt
24.5
25.5
26.5
27.5
sigma-t

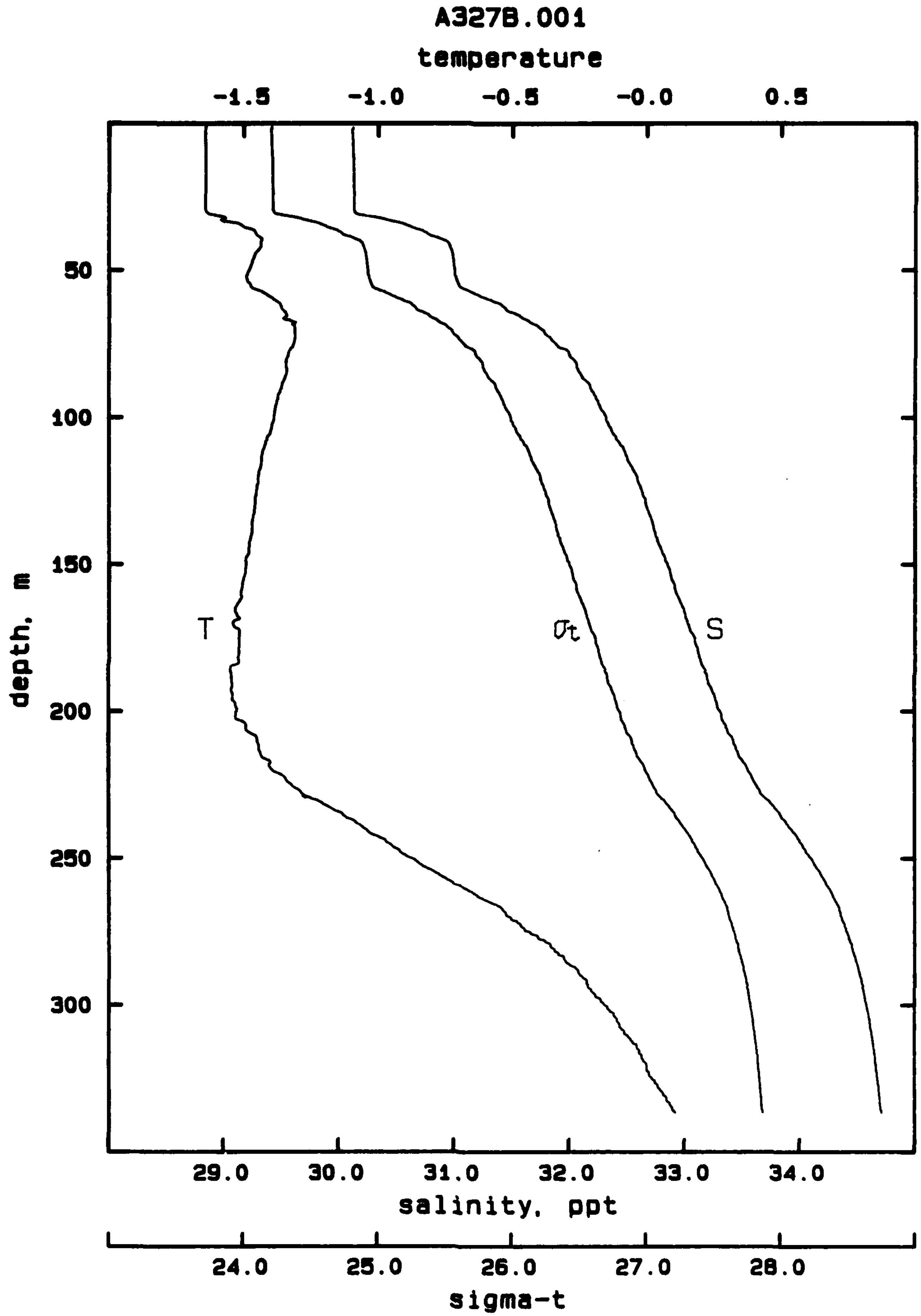

A324B.005
temperature
-1.5
-1.0
-0.5
-0.0
0.5
50
100
150
200
250
300
depth, m
T
σt
S
30.0
31.0
32.0
33.0
34.0
salinity, ppt
24.5
25.5
26.5
27.5
sigma-t

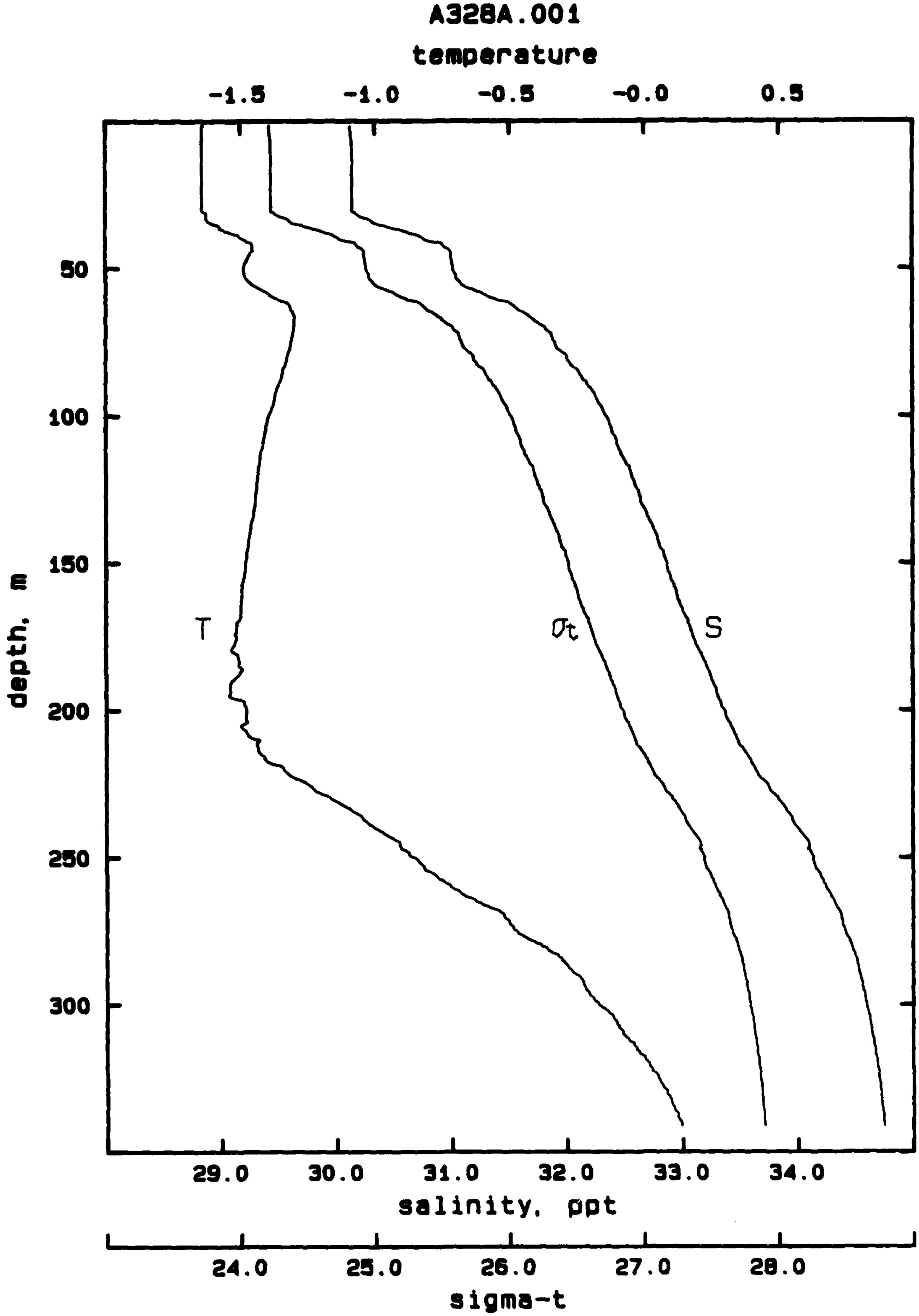

A326A.001
temperature
-1.5
-1.0
-0.5
-0.0
0.5
depth, m
50
100
150
200
250
300
350
T
σt
S
29.0
30.0
31.0
32.0
33.0
34.0
salinity, ppt
24.0
25.0
26.0
27.0
28.0
sigma-t

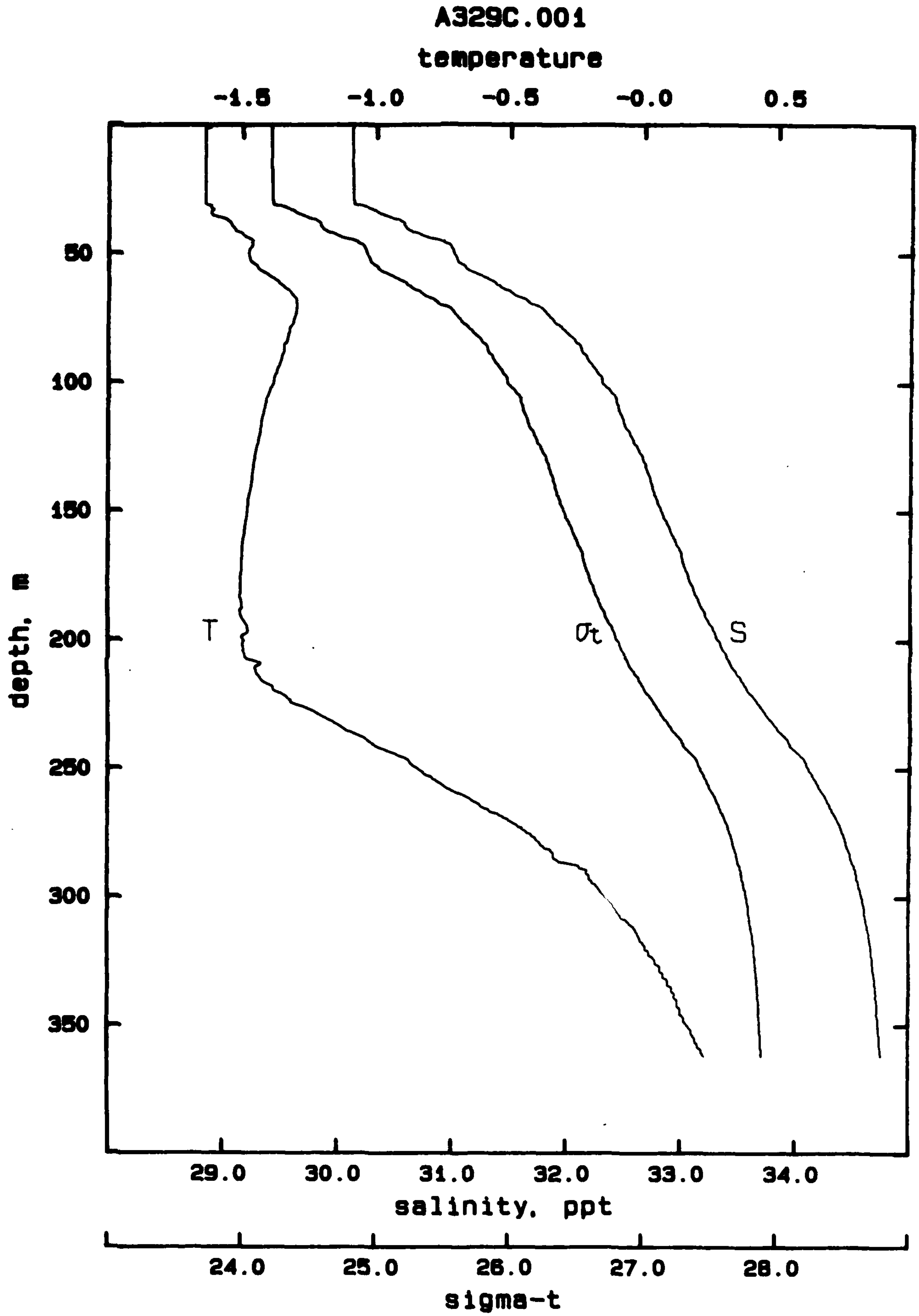

A326B.001
temperature
-1.5
-1.0
-0.5
-0.0
0.5
50
100
150
200
250
300
depth, m
T
σt
S
29.0
30.0
31.0
32.0
33.0
34.0
salinity, ppt
24.0
25.0
26.0
27.0
28.0
sigma-t

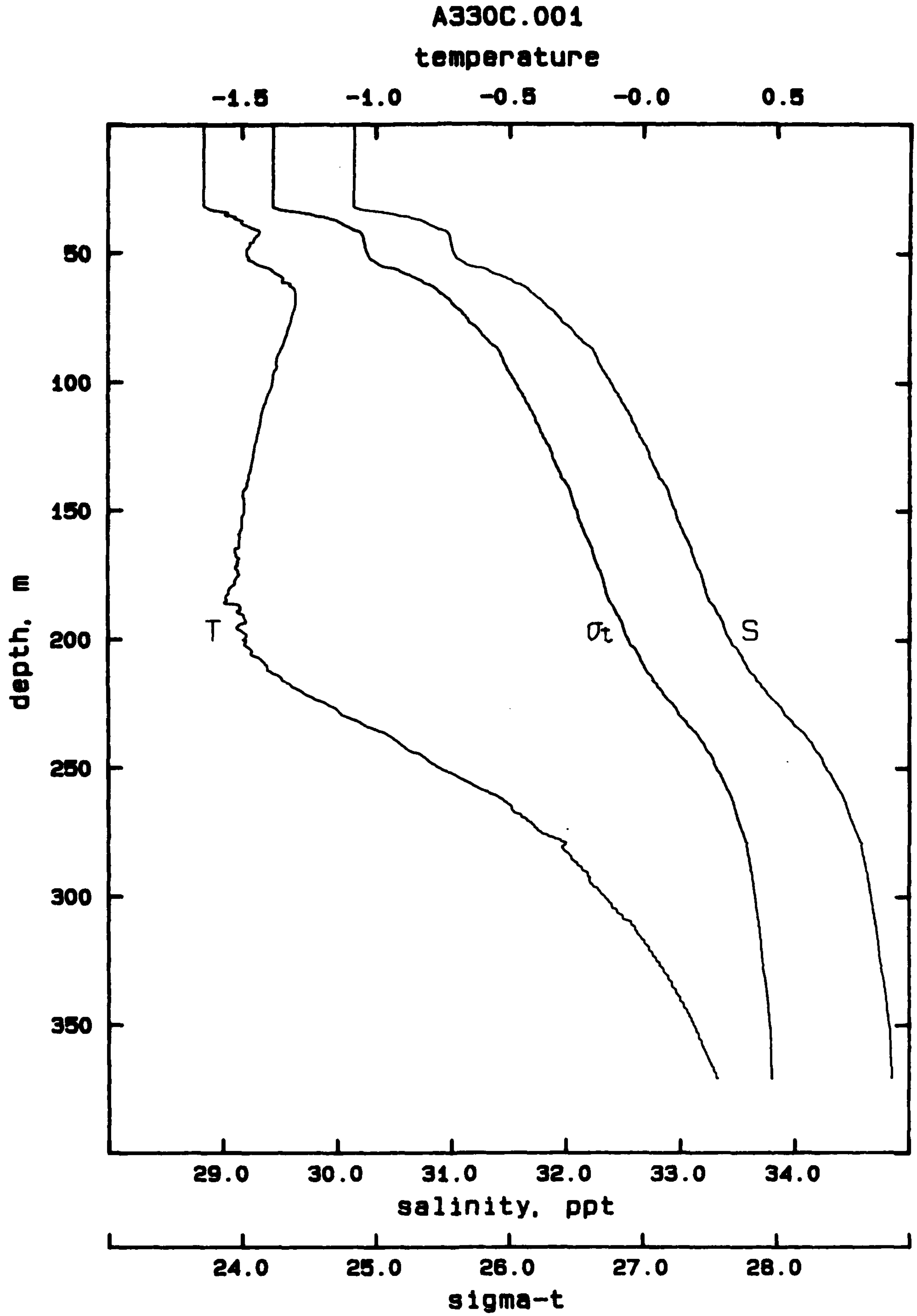

A326C.001
temperature
-1.5
-1.0
-0.5
-0.0
0.5
50
100
150
200
250
300
depth, m
T
σt
S
29.0
30.0
31.0
32.0
33.0
34.0
salinity, ppt
24.0
25.0
26.0
27.0
28.0
sigma-t

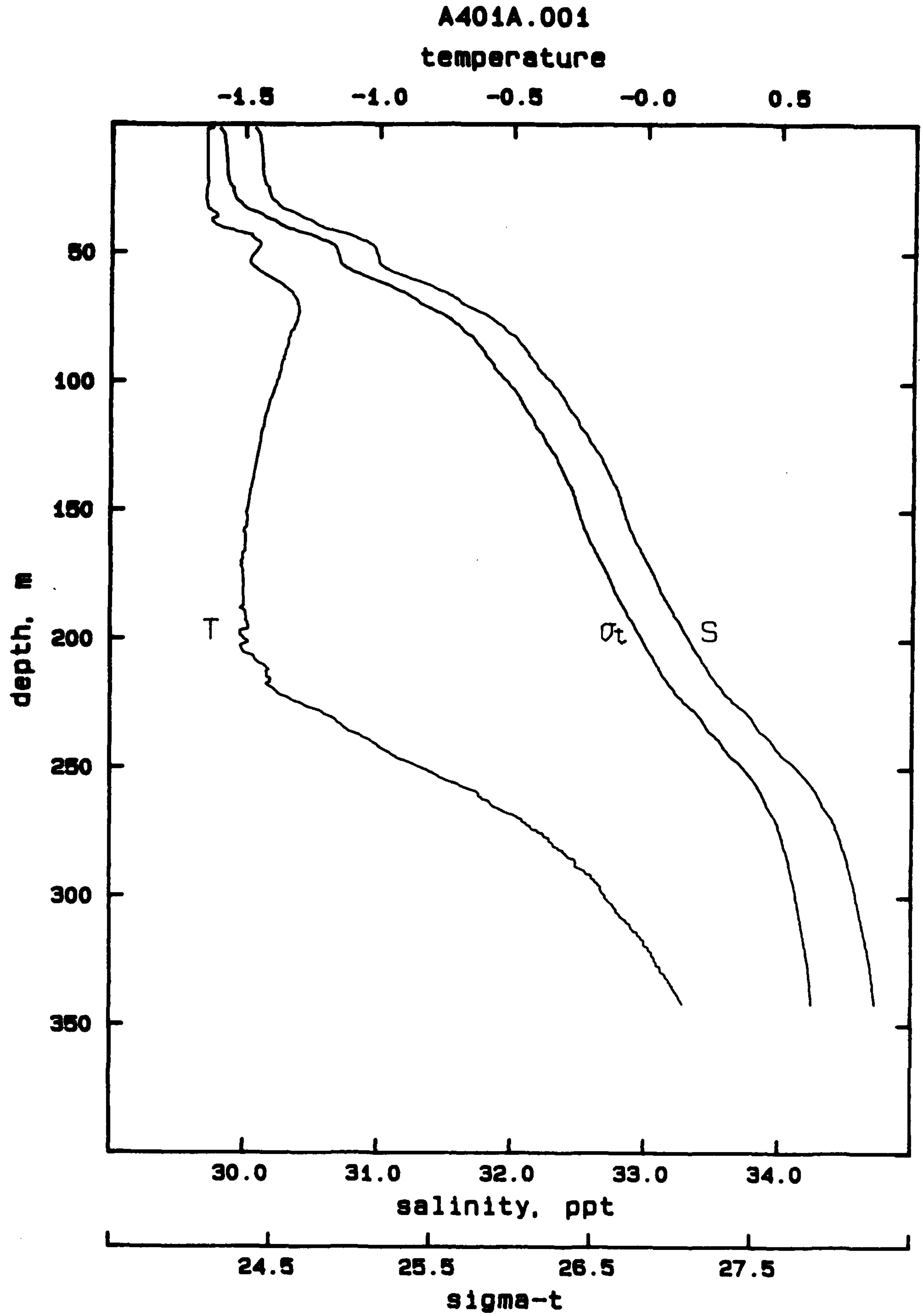

A327A.001
temperature
-1.5
-1.0
-0.5
-0.0
0.5
depth, m
50
100
150
200
250
300
T
σt
S
29.0
30.0
31.0
32.0
33.0
34.0
salinity, ppt
24.0
25.0
26.0
27.0
28.0
sigma-t

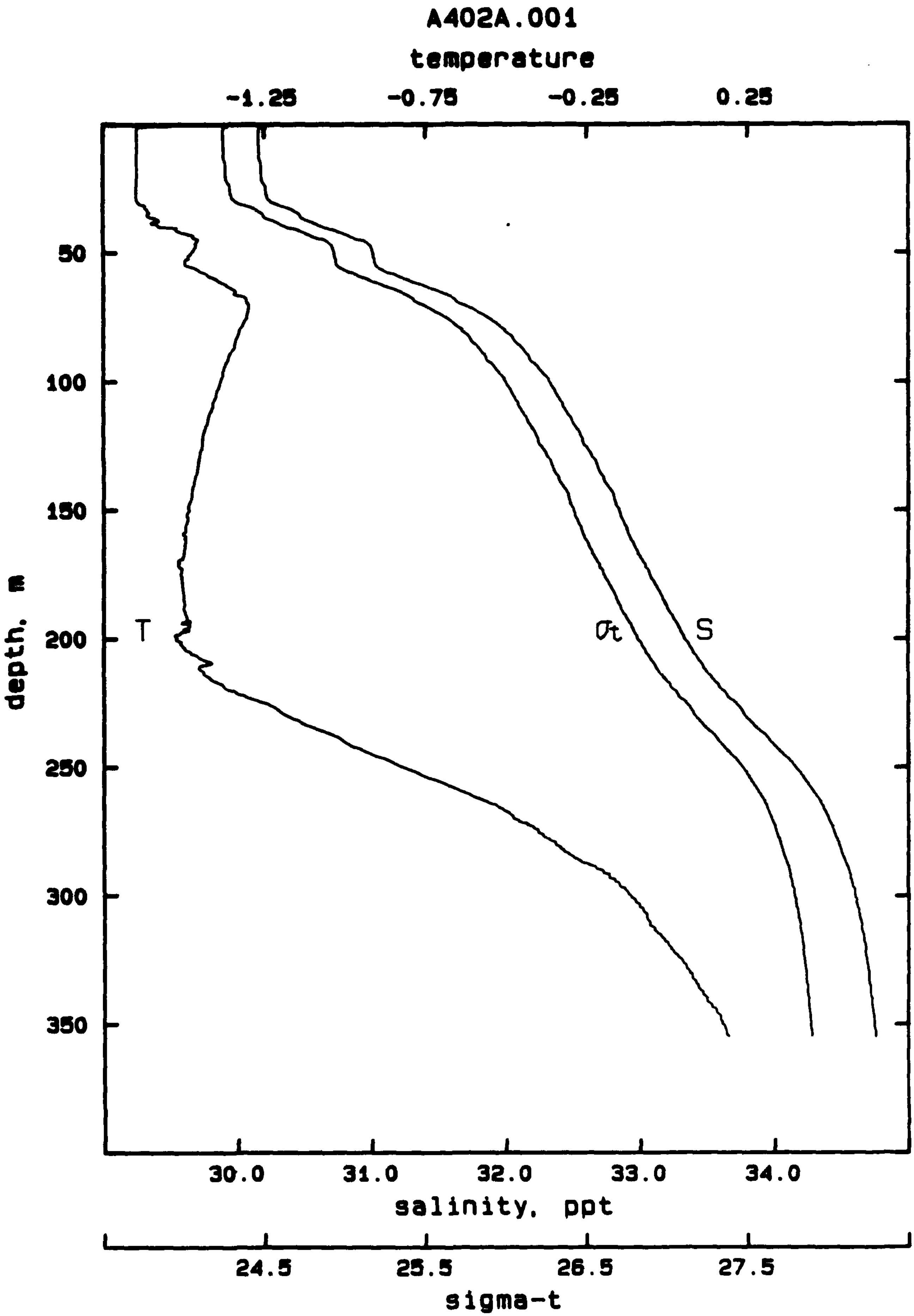

A327B.001
temperature
-1.5
-1.0
-0.5
-0.0
0.5
depth, m
50
100
150
200
250
300
T
σ_t
S
29.0
30.0
31.0
32.0
33.0
34.0
salinity, ppt
24.0
25.0
26.0
27.0
28.0
sigma-t

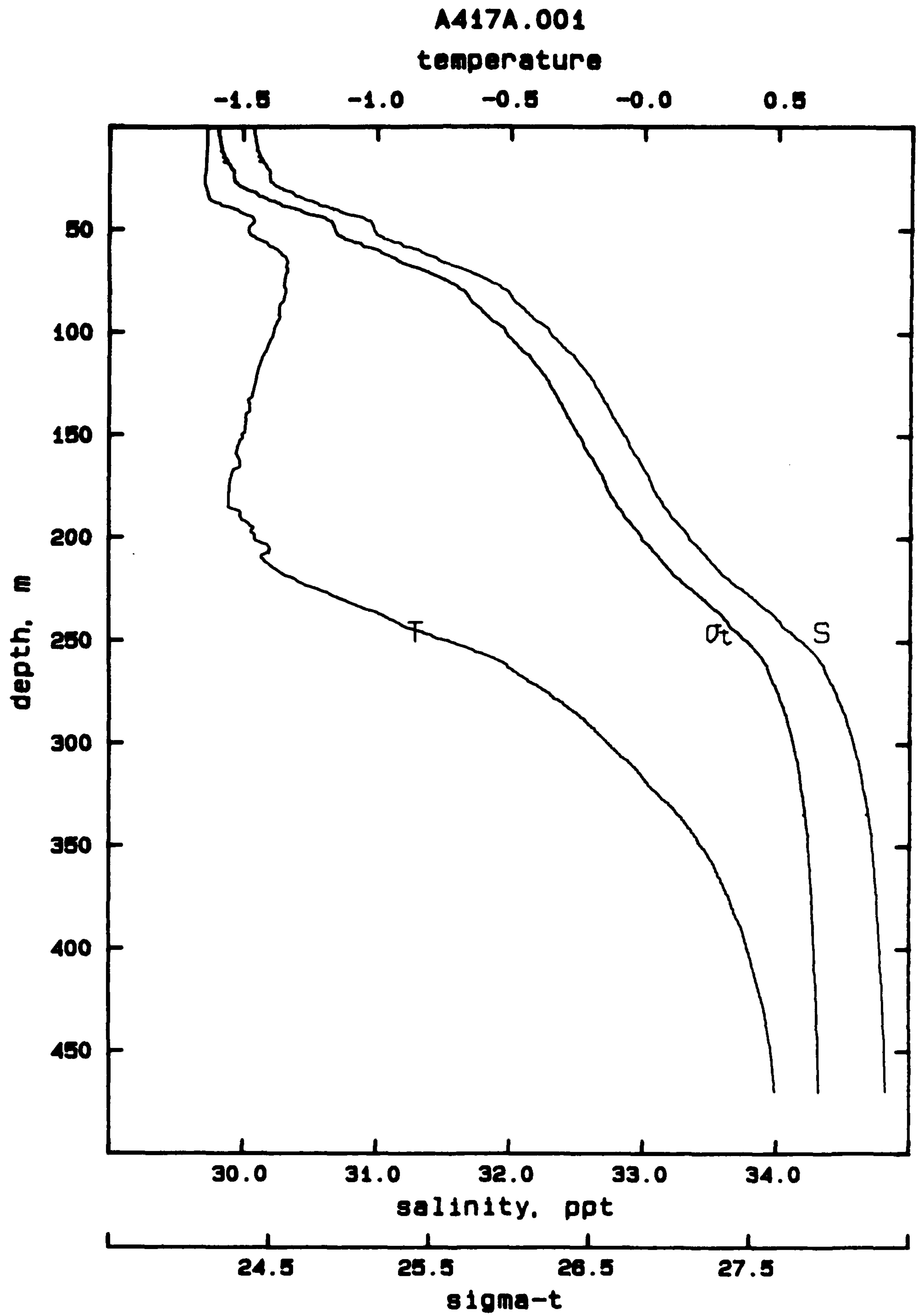

A328A.001
temperature
-1.5
-1.0
-0.5
-0.0
0.5
50
100
150
200
250
300
depth, m
T
σt
S
29.0
30.0
31.0
32.0
33.0
34.0
salinity, ppt
24.0
25.0
26.0
27.0
28.0
sigma-t

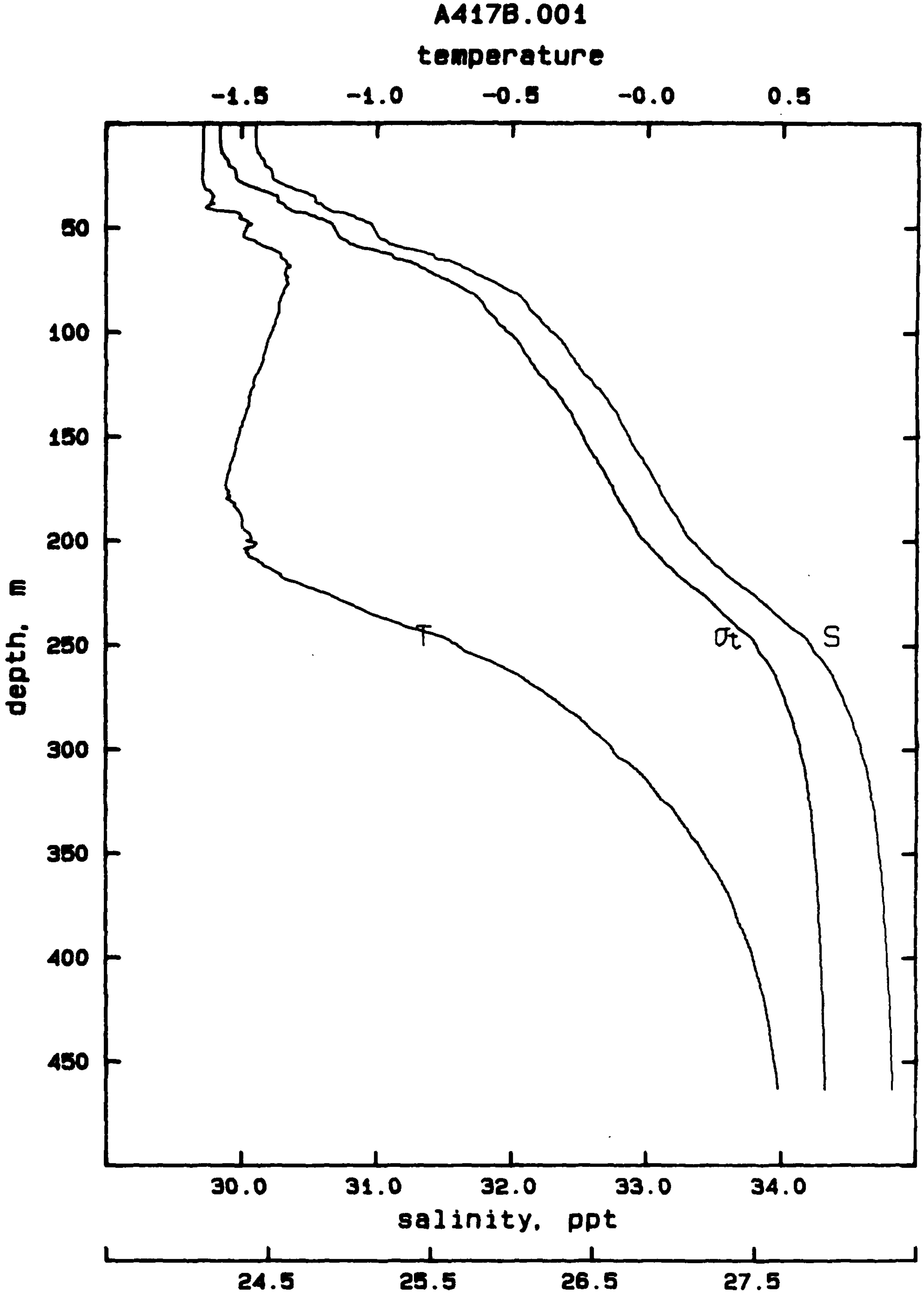

A329C.001
temperature
-1.5
-1.0
-0.5
-0.0
0.5
50
100
150
200
250
300
350
depth, m
T
σt
S
29.0
30.0
31.0
32.0
33.0
34.0
salinity, ppt
24.0
25.0
26.0
27.0
28.0
sigma-t

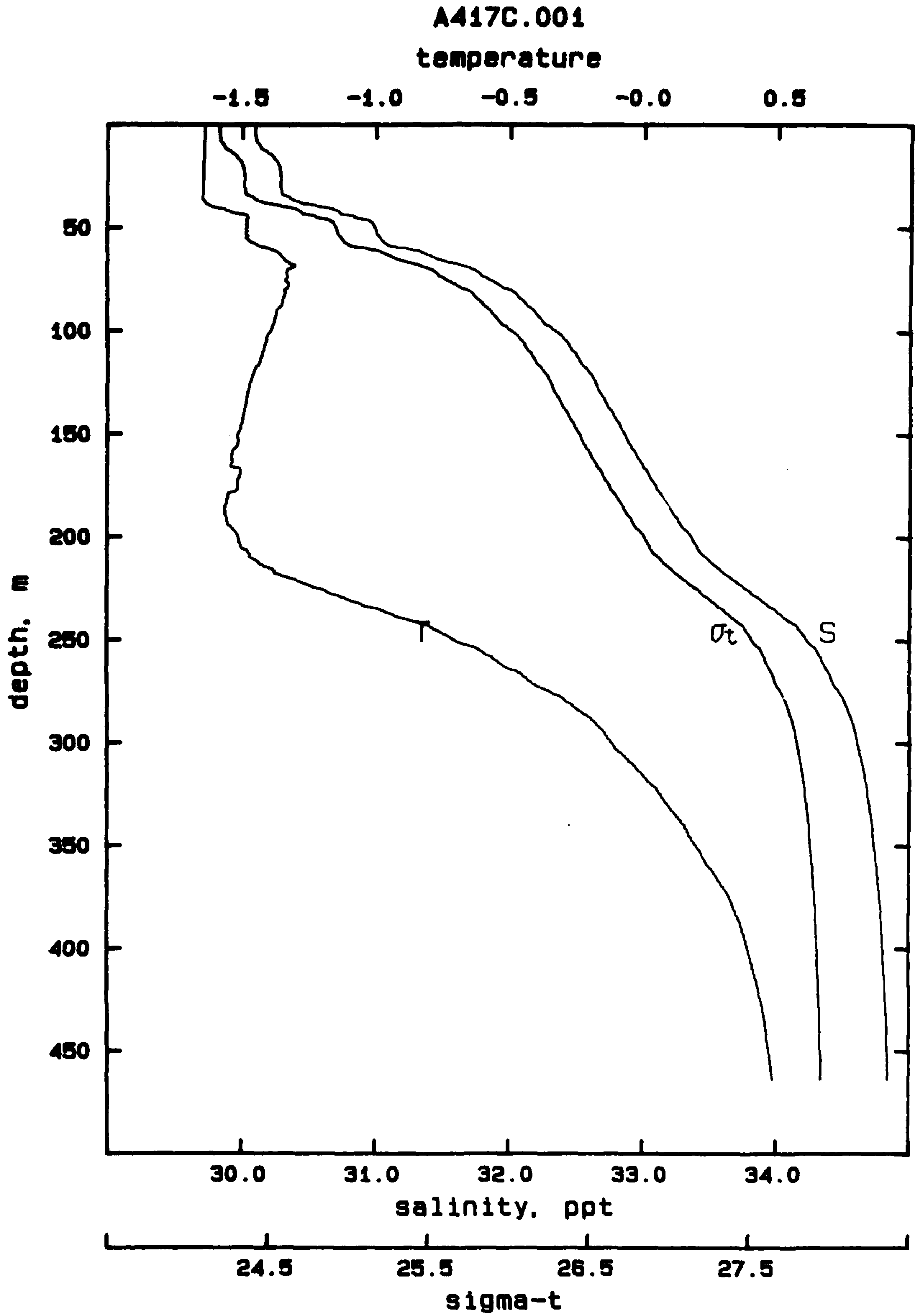

A330C.001
temperature
-1.5
-1.0
-0.5
-0.0
0.5
depth, m
50
100
150
200
250
300
350
T
σt
S
29.0
30.0
31.0
32.0
33.0
34.0
salinity, ppt
24.0
25.0
26.0
27.0
28.0
sigma-t

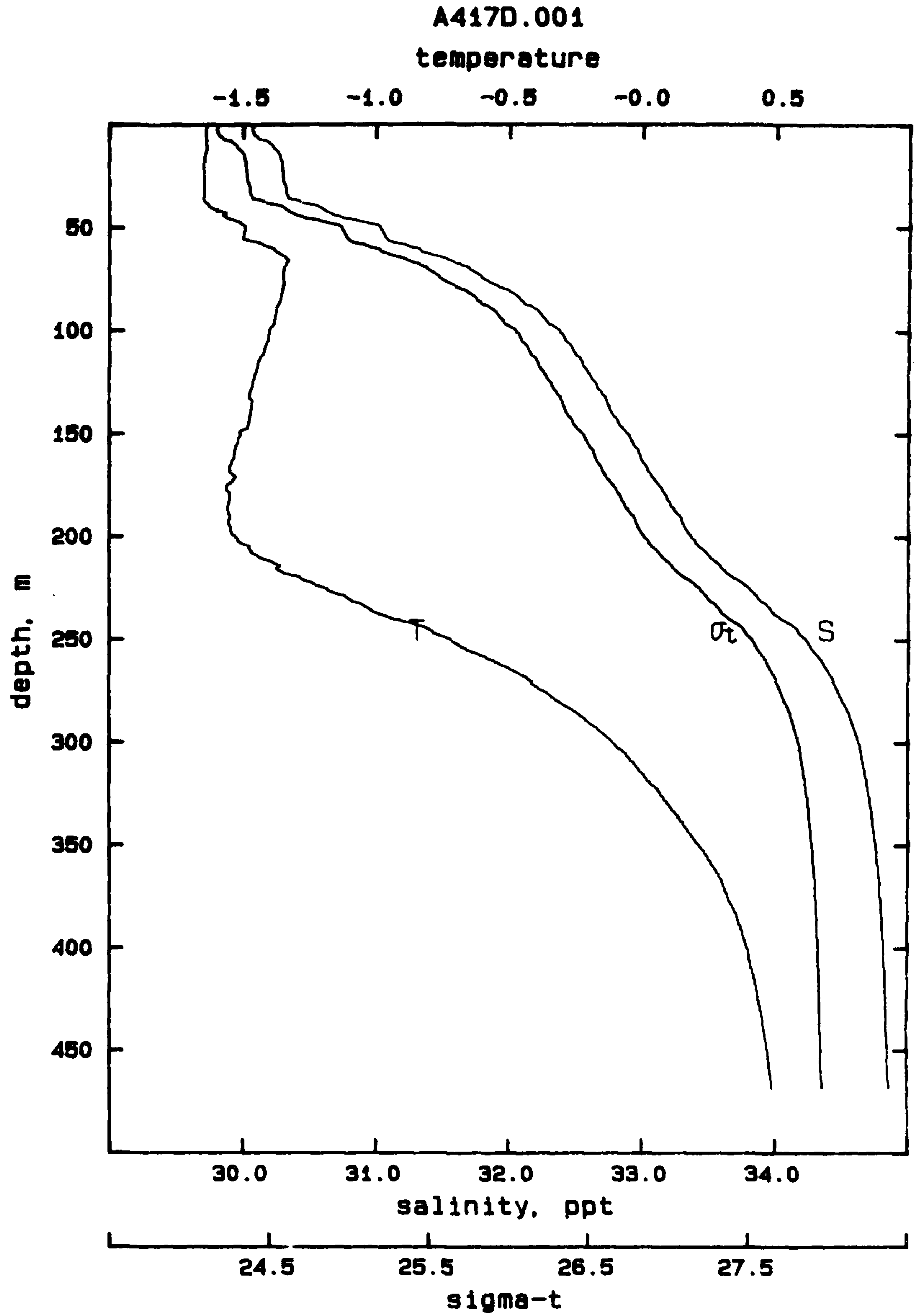

A401A.001
temperature
-1.5
-1.0
-0.5
-0.0
0.5
depth, m
50
100
150
200
250
300
350
T
σt
S
30.0
31.0
32.0
33.0
34.0
salinity, ppt
24.5
25.5
26.5
27.5
sigma-t

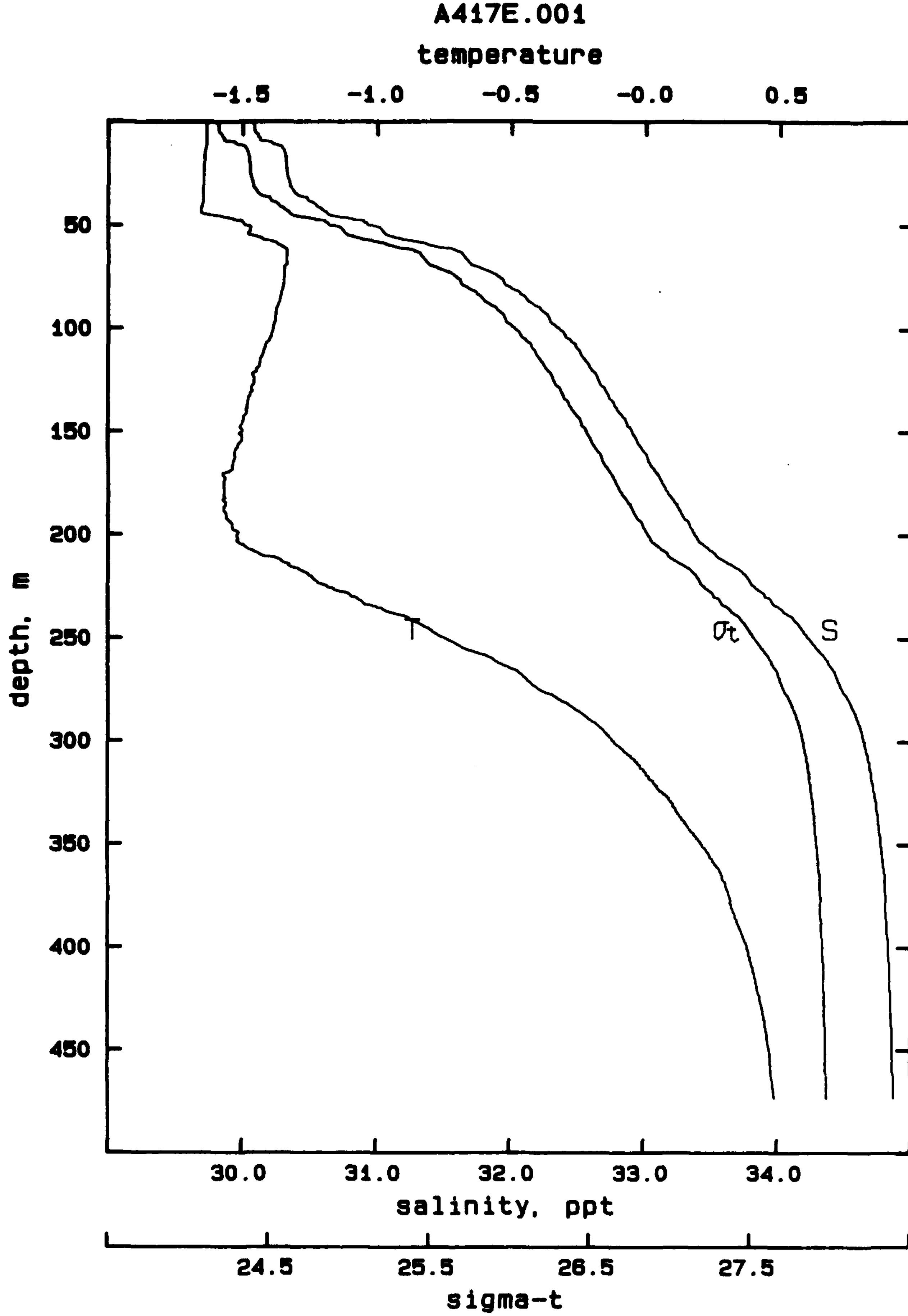

A402A.001
temperature
-1.25
-0.75
-0.25
0.25
depth, m
50
100
150
200
250
300
350
T
σt
S
30.0
31.0
32.0
33.0
34.0
salinity, ppt
24.5
25.5
26.5
27.5
sigma-t

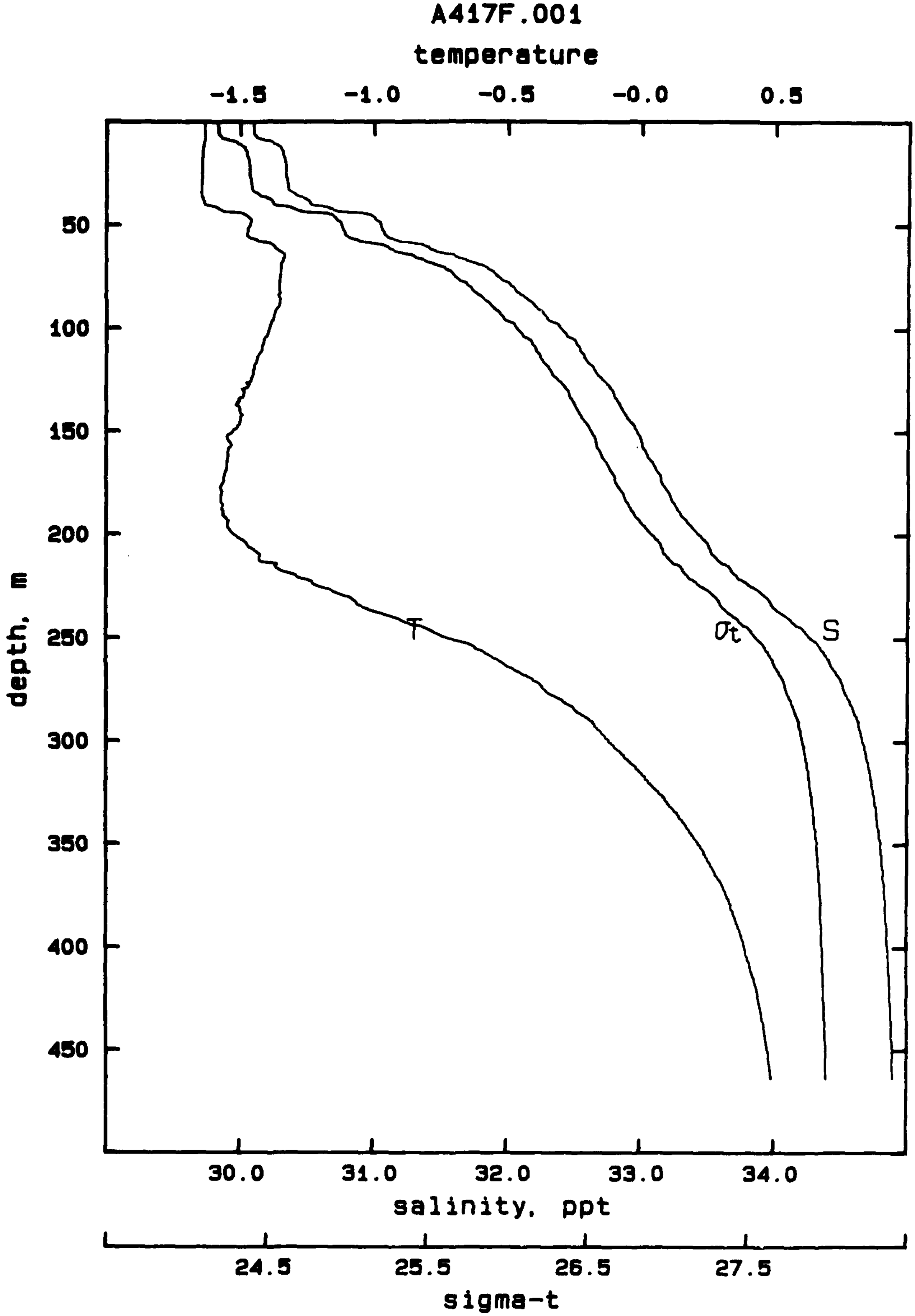

A417A.001
temperature
-1.5
-1.0
-0.5
-0.0
0.5
depth, m
50
100
150
200
250
300
350
400
450
T
σt
S
30.0
31.0
32.0
33.0
34.0
salinity, ppt
24.5
25.5
26.5
27.5
sigma-t

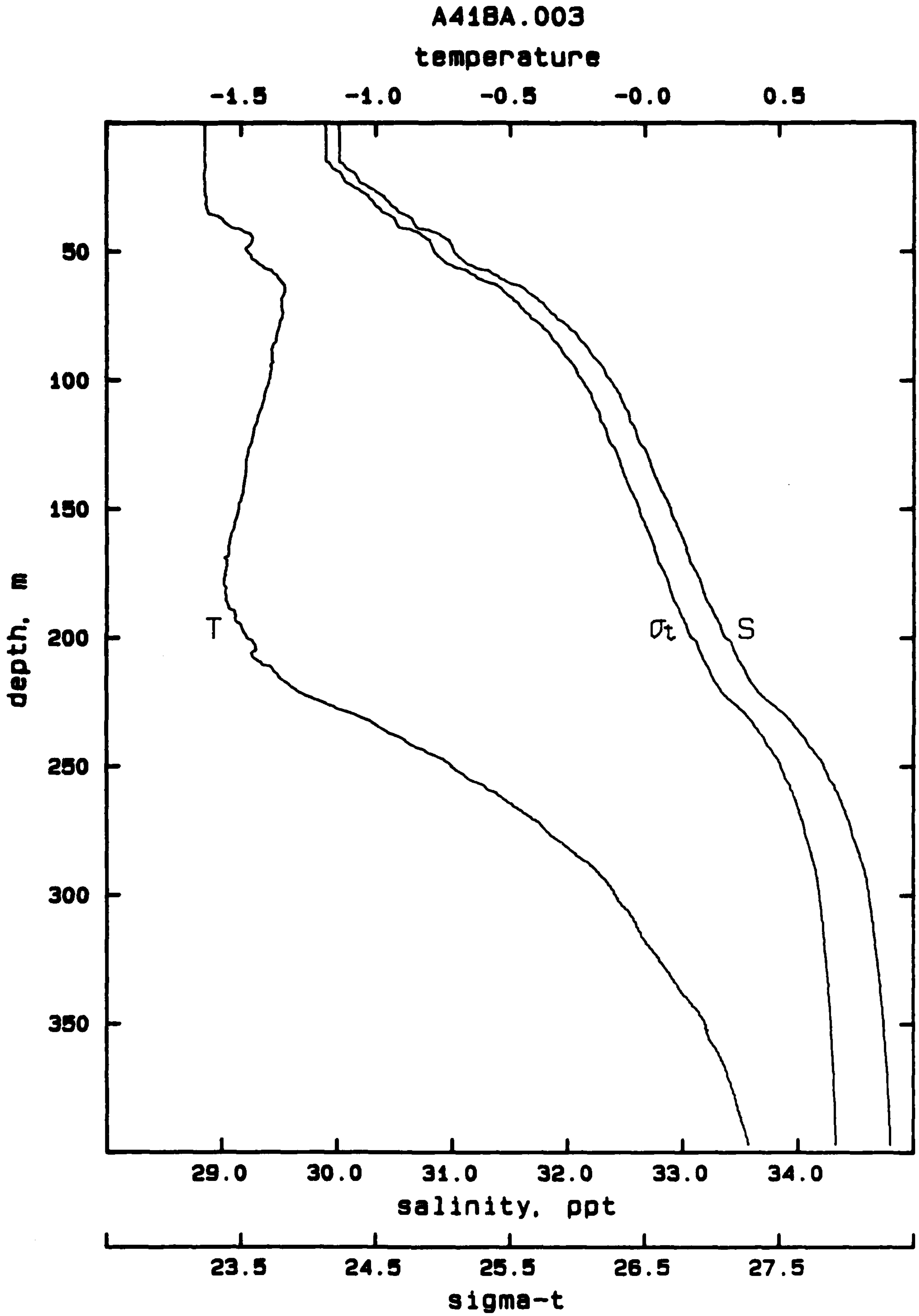

A417B.001
temperature
-1.5
-1.0
-0.5
-0.0
0.5
depth, m
50
100
150
200
250
300
350
400
450
T
σt
S
30.0
31.0
32.0
33.0
34.0
salinity, ppt
24.5
25.5
26.5
27.5
sigma-t

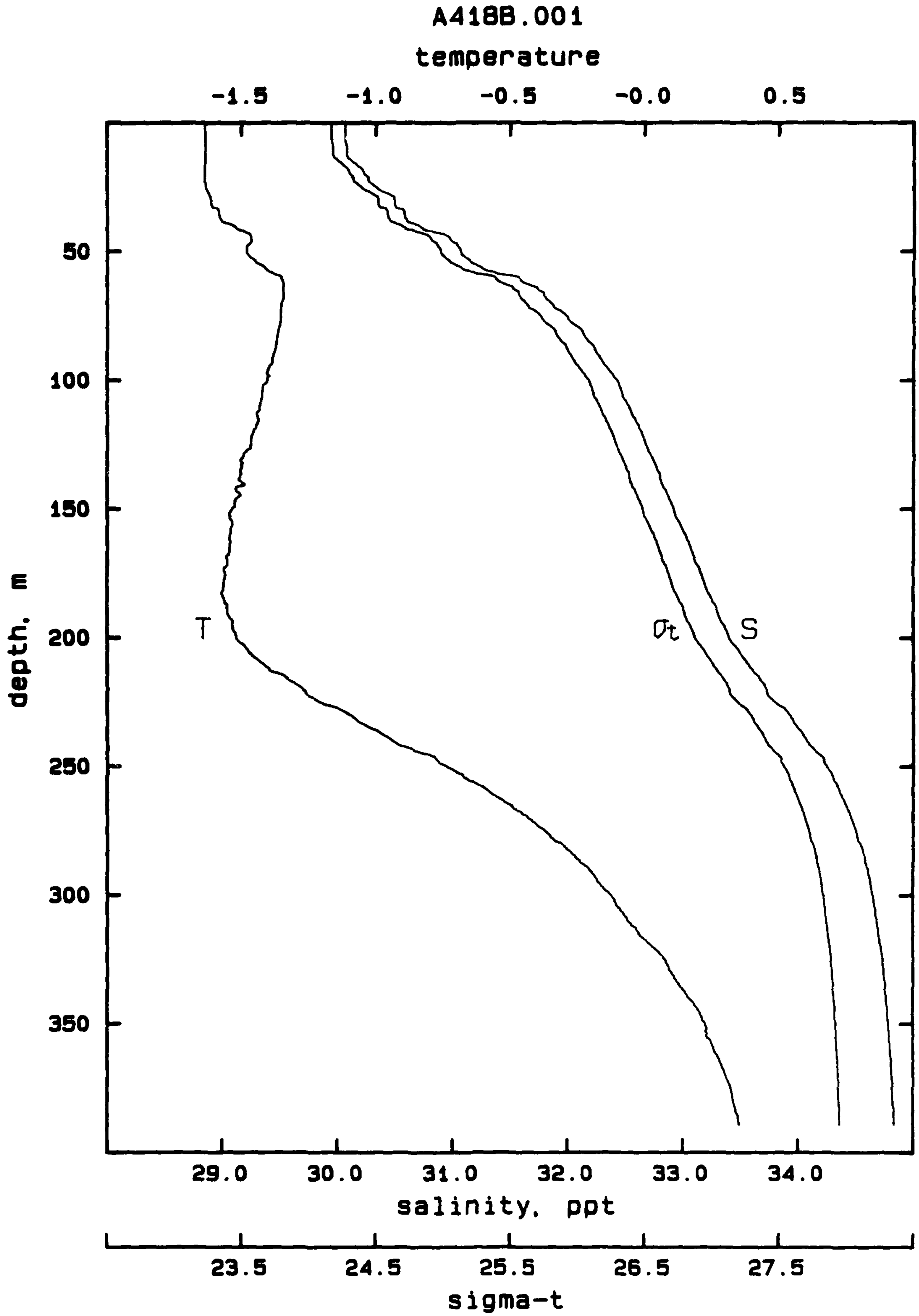

A417C.001
temperature
-1.5
-1.0
-0.5
-0.0
0.5
depth, m
50
100
150
200
250
300
350
400
450
T
σt
S
30.0
31.0
32.0
33.0
34.0
salinity, ppt
24.5
25.5
26.5
27.5
sigma-t


A417D.001
temperature
-1.5
-1.0
-0.5
-0.0
0.5
50
100
150
200
250
300
350
400
450
depth, m
T
σt
S
30.0
31.0
32.0
33.0
34.0
salinity, ppt
24.5
25.5
26.5
27.5
sigma-t

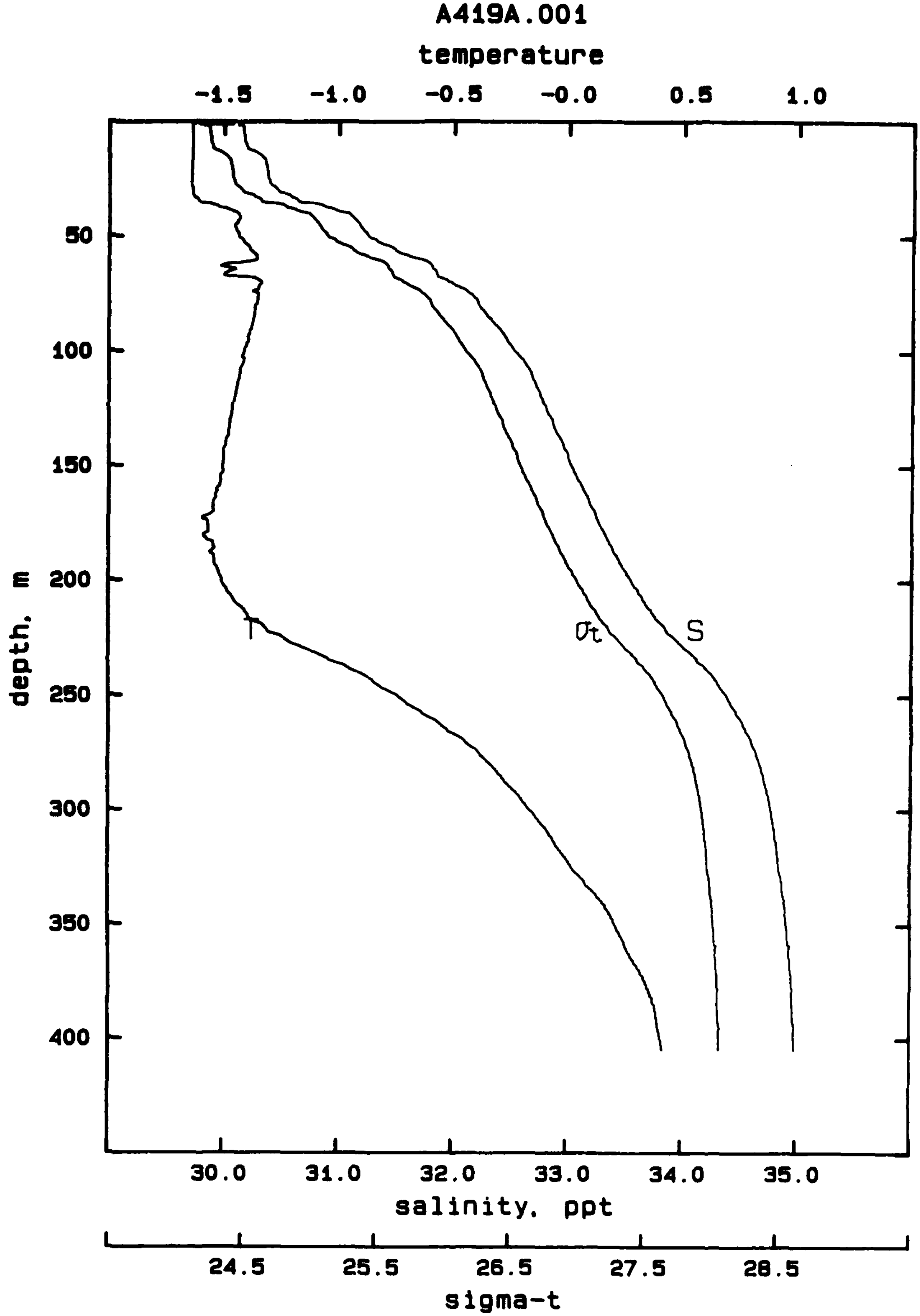

A417E.001
temperature
-1.5
-1.0
-0.5
-0.0
0.5
50
100
150
200
250
300
350
400
450
depth, m
T
σt
S
30.0
31.0
32.0
33.0
34.0
salinity, ppt
24.5
25.5
26.5
27.5
sigma-t

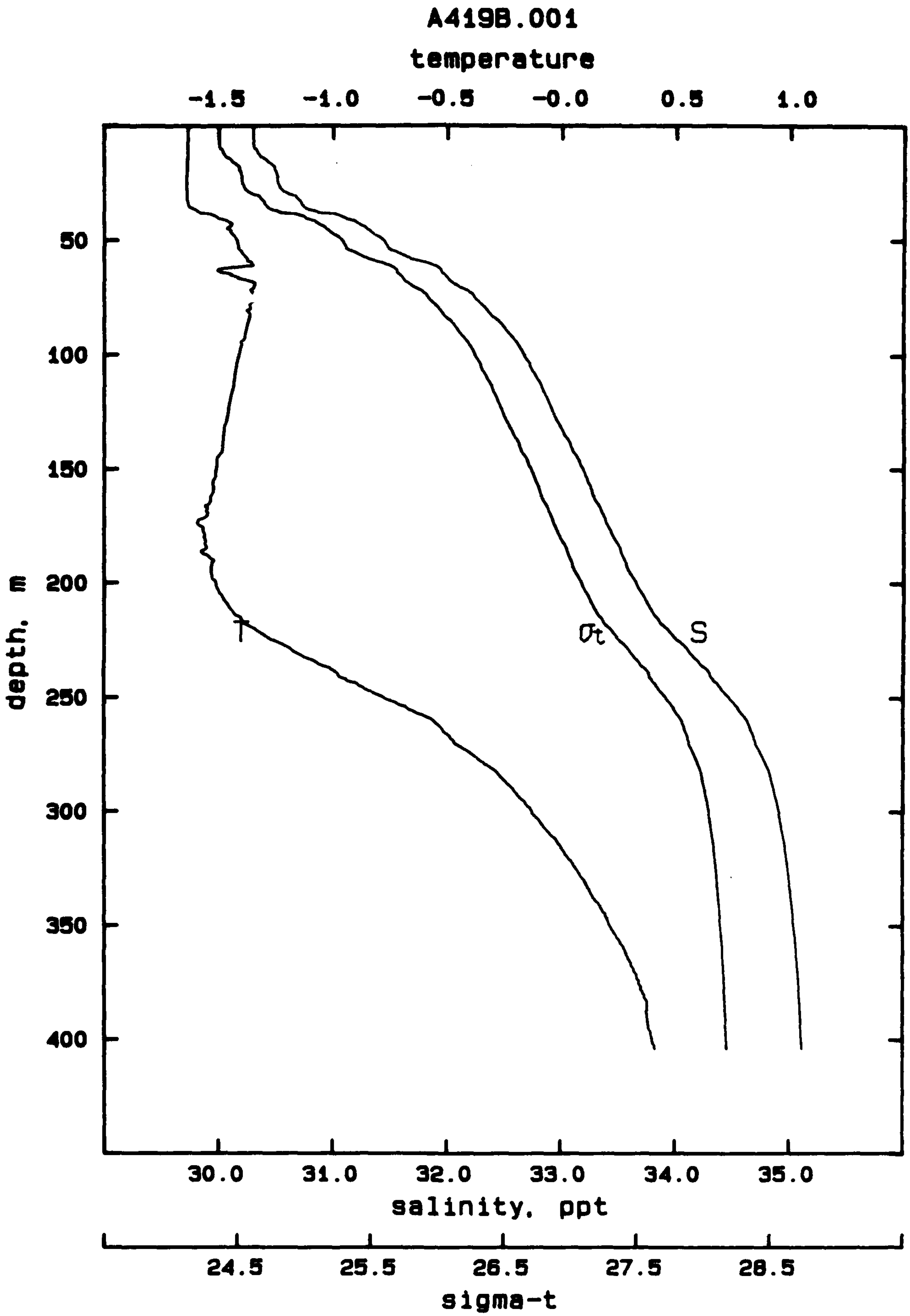

A417F.001
temperature
-1.5
-1.0
-0.5
-0.0
0.5
depth, m
50
100
150
200
250
300
350
400
450
T
σt
S
30.0
31.0
32.0
33.0
34.0
salinity, ppt
24.5
25.5
26.5
27.5
sigma-t

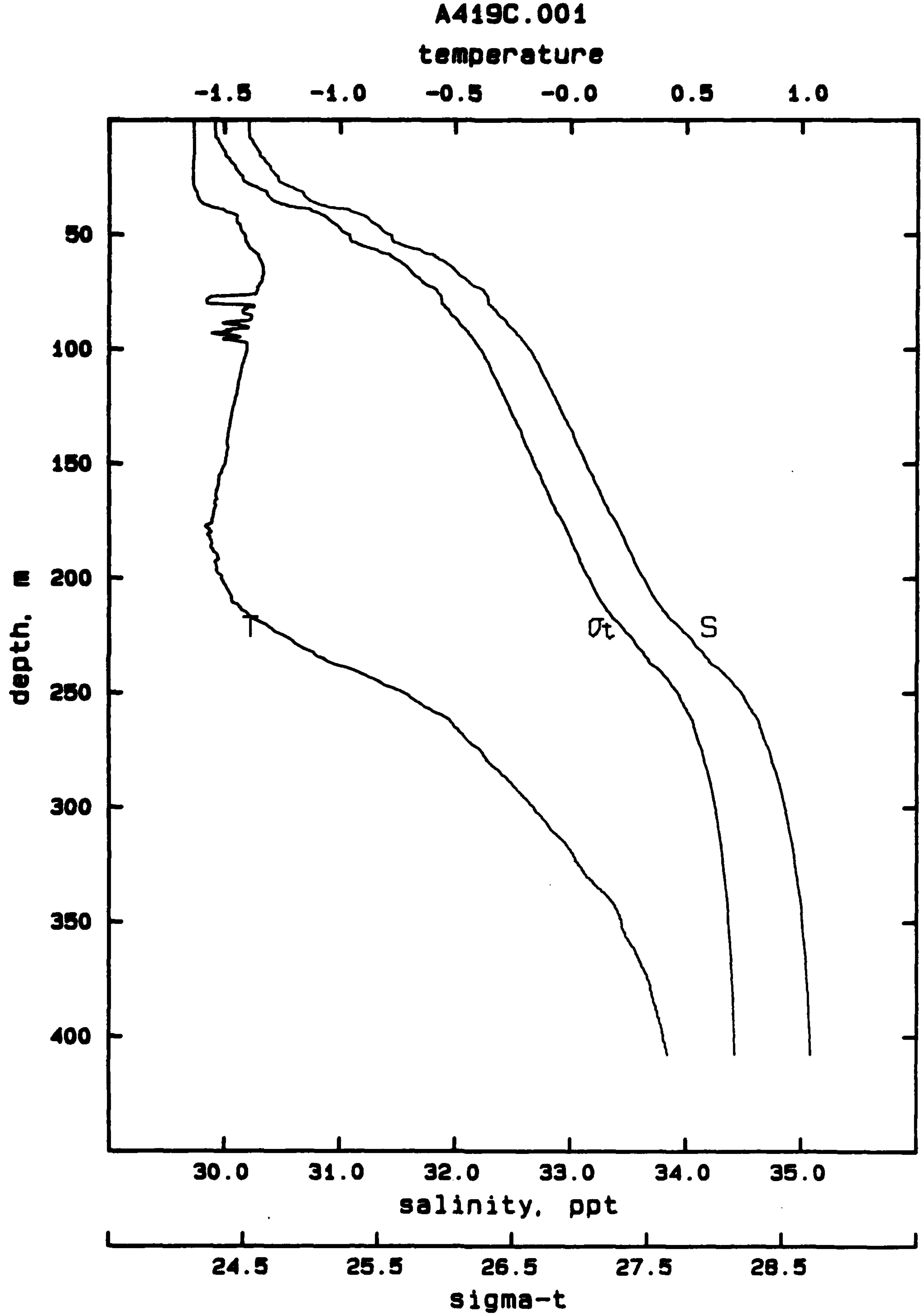

A418A.003
temperature
-1.5
-1.0
-0.5
-0.0
0.5
depth, m
50
100
150
200
250
300
350
T
σt
S
29.0
30.0
31.0
32.0
33.0
34.0
salinity, ppt
23.5
24.5
25.5
26.5
27.5
sigma-t

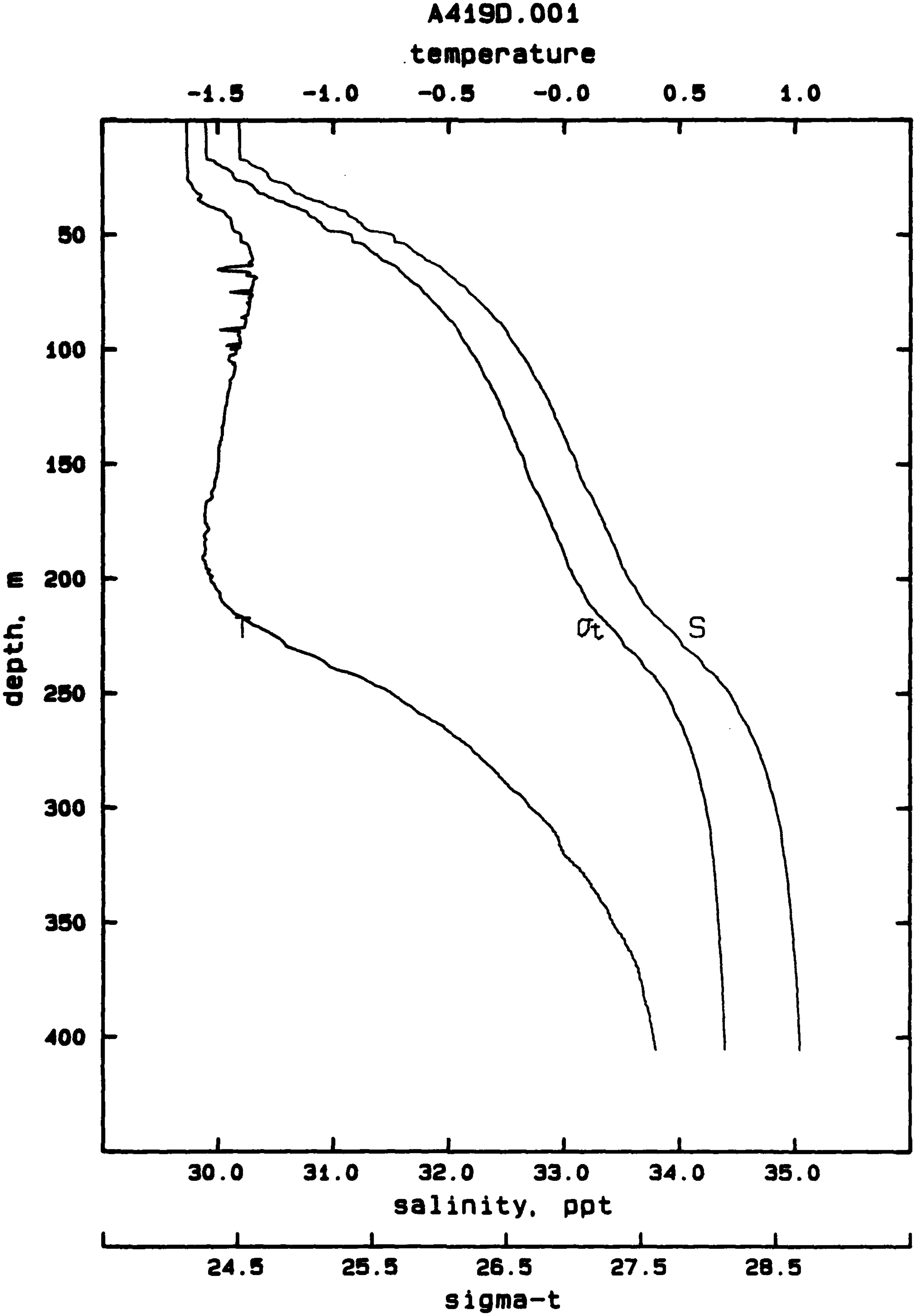


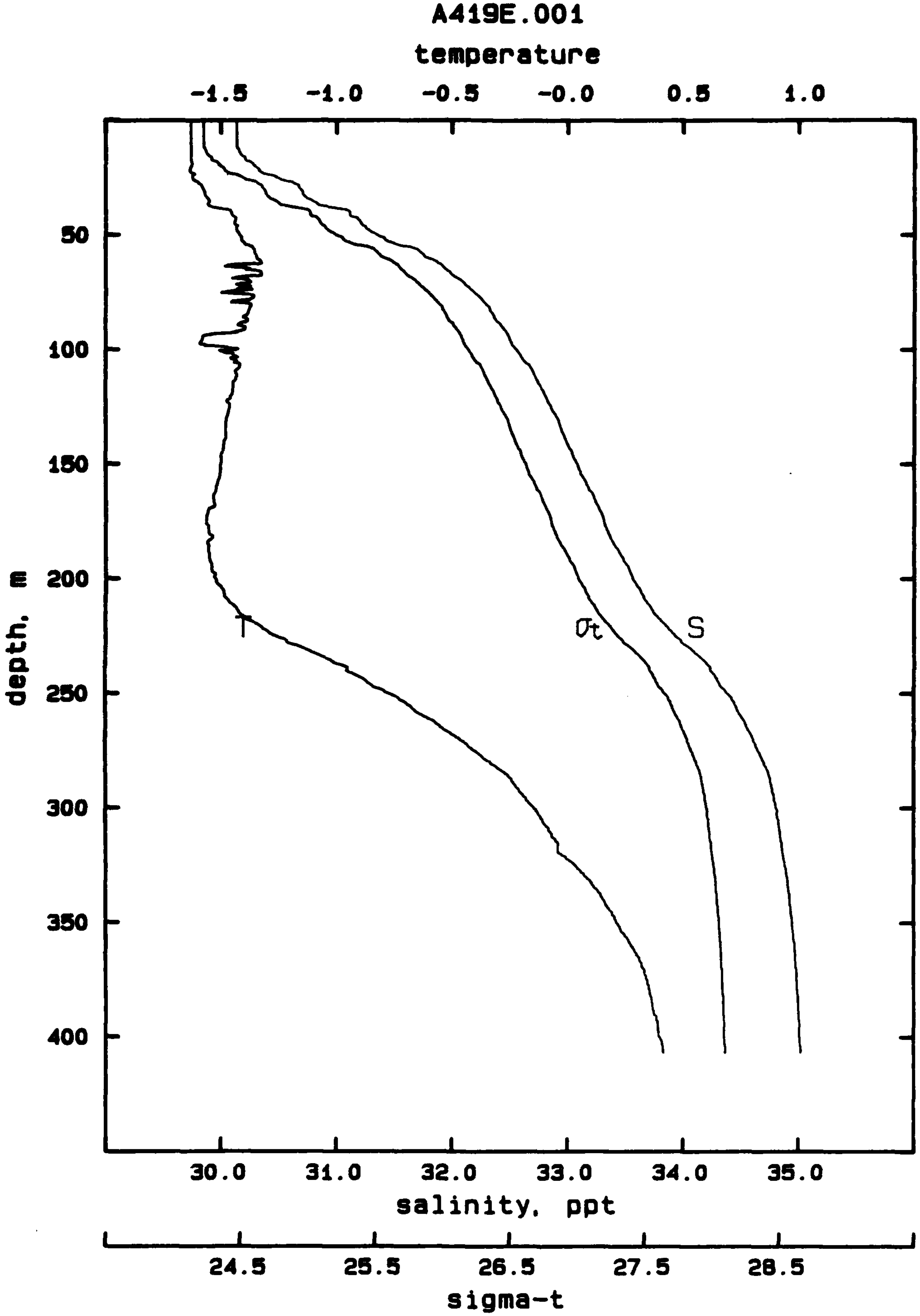
A418B.001
temperature
-1.5
-1.0
-0.5
-0.0
0.5
depth, m
50
100
150
200
250
300
350
T
σt
S
29.0
30.0
31.0
32.0
33.0
34.0
salinity, ppt
23.5
24.5
25.5
26.5
27.5
sigma-t

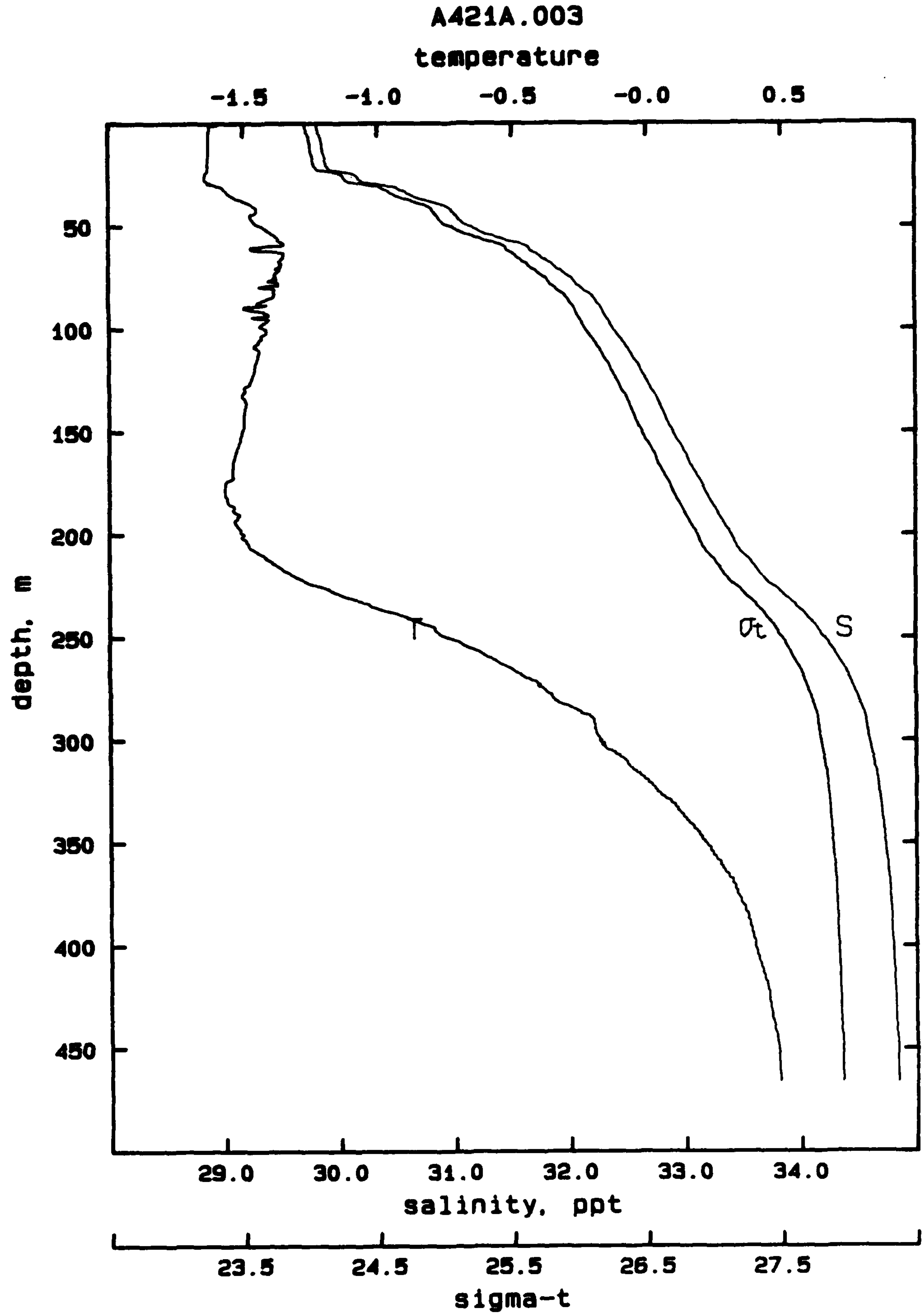

A419A.001
temperature
-1.5
-1.0
-0.5
-0.0
0.5
1.0
depth, m
50
100
150
200
250
300
350
400
T
σt
S
30.0
31.0
32.0
33.0
34.0
35.0
salinity, ppt
24.5
25.5
26.5
27.5
28.5
sigma-t

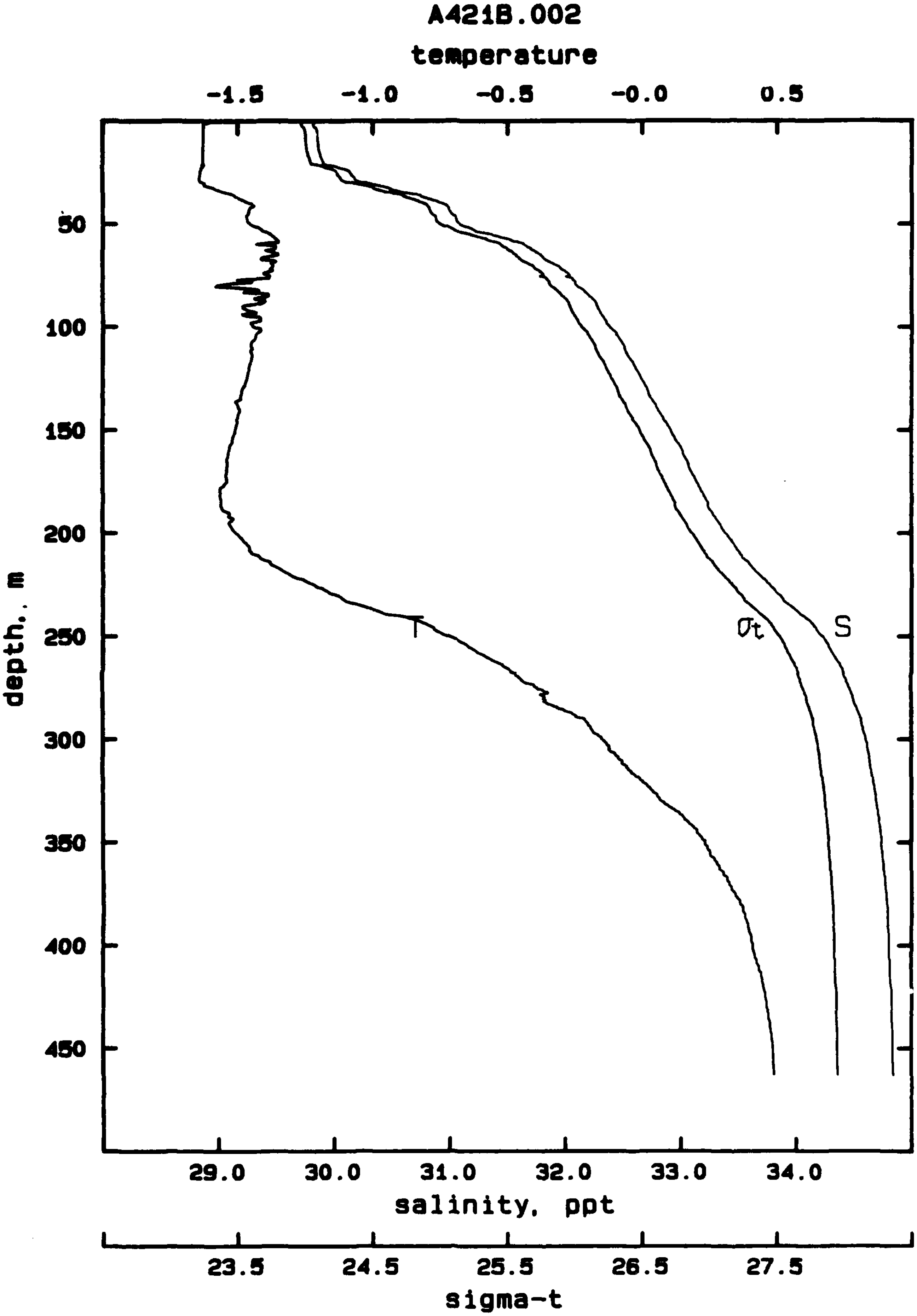

A419B.001
temperature
-1.5
-1.0
-0.5
-0.0
0.5
1.0
50
100
150
200
250
300
350
400
depth, m
T
σt
S
30.0
31.0
32.0
33.0
34.0
35.0
salinity, ppt
24.5
25.5
26.5
27.5
28.5
sigma-t

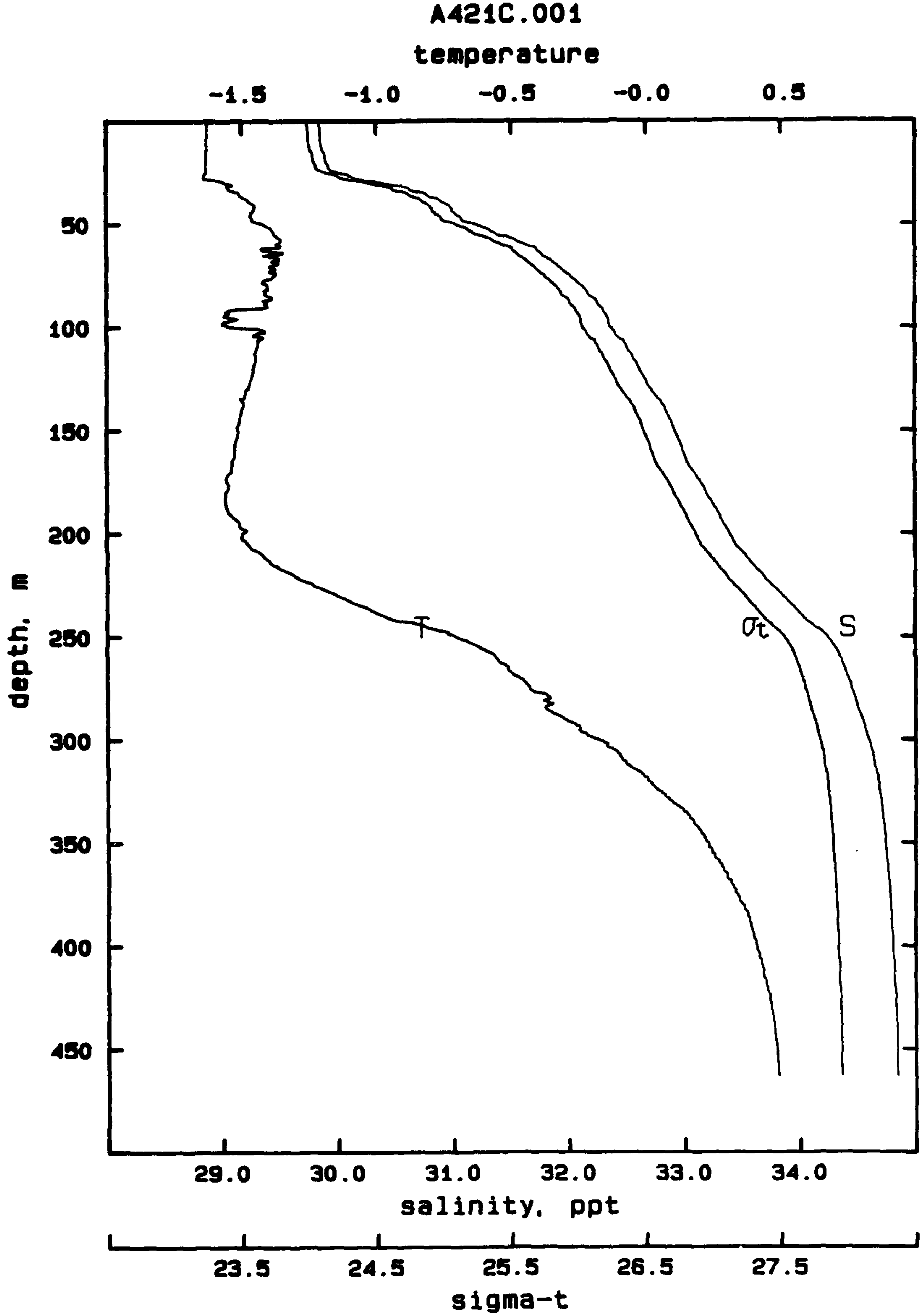

A419C.001
temperature
-1.5
-1.0
-0.5
-0.0
0.5
1.0
depth, m
50
100
150
200
250
300
350
400
T
σt
S
30.0
31.0
32.0
33.0
34.0
35.0
salinity, ppt
24.5
25.5
26.5
27.5
28.5
sigma-t

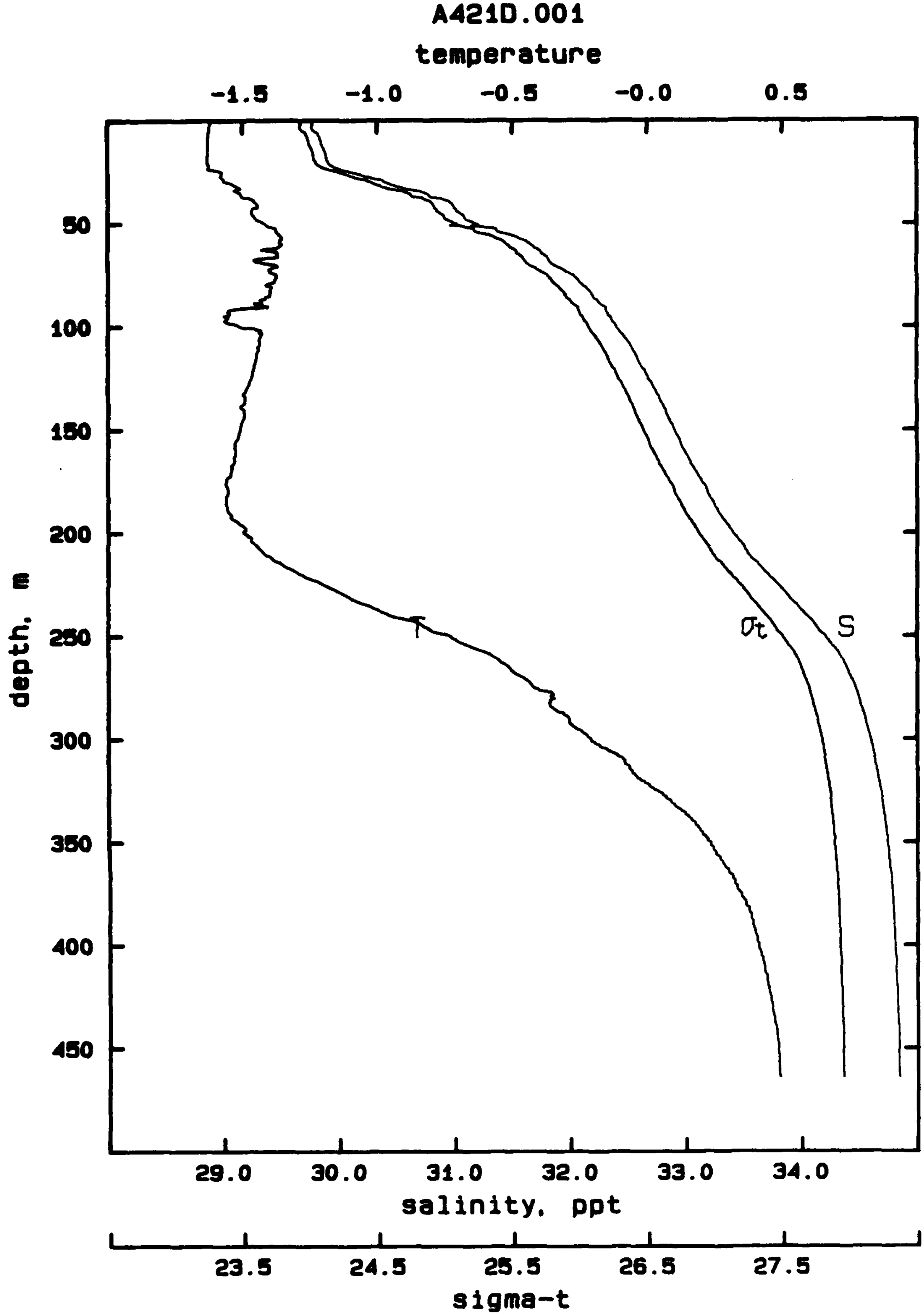

A419D.001
temperature
-1.5
-1.0
-0.5
-0.0
0.5
1.0
50
100
150
200
250
300
350
400
depth, m
T
σt
S
30.0
31.0
32.0
33.0
34.0
35.0
salinity, ppt
24.5
25.5
26.5
27.5
28.5
sigma-t

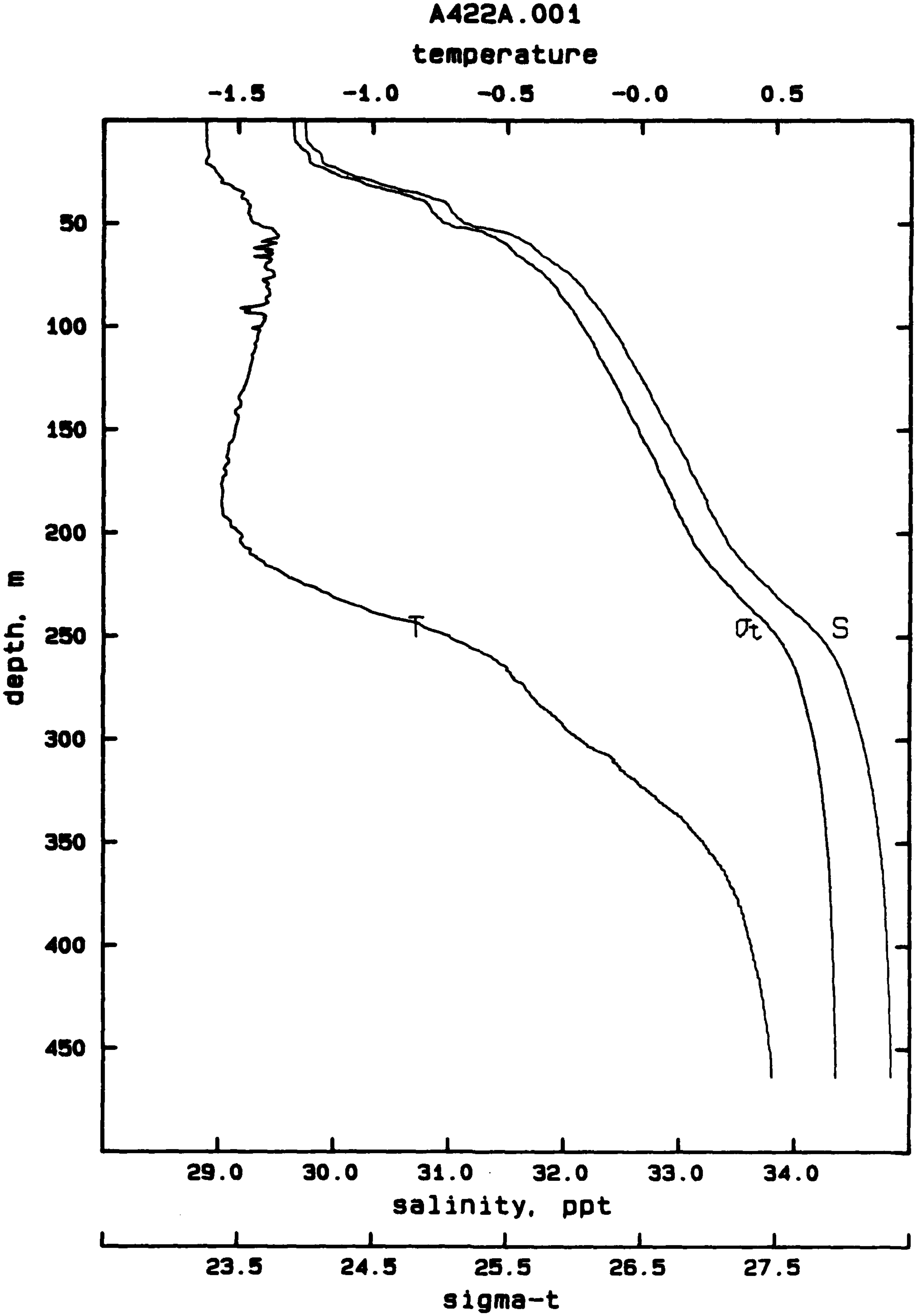

A419E.001
temperature
-1.5
-1.0
-0.5
-0.0
0.5
1.0
depth, m
50
100
150
200
250
300
350
400
T
σt
S
30.0
31.0
32.0
33.0
34.0
35.0
salinity, ppt
24.5
25.5
26.5
27.5
28.5
sigma-t

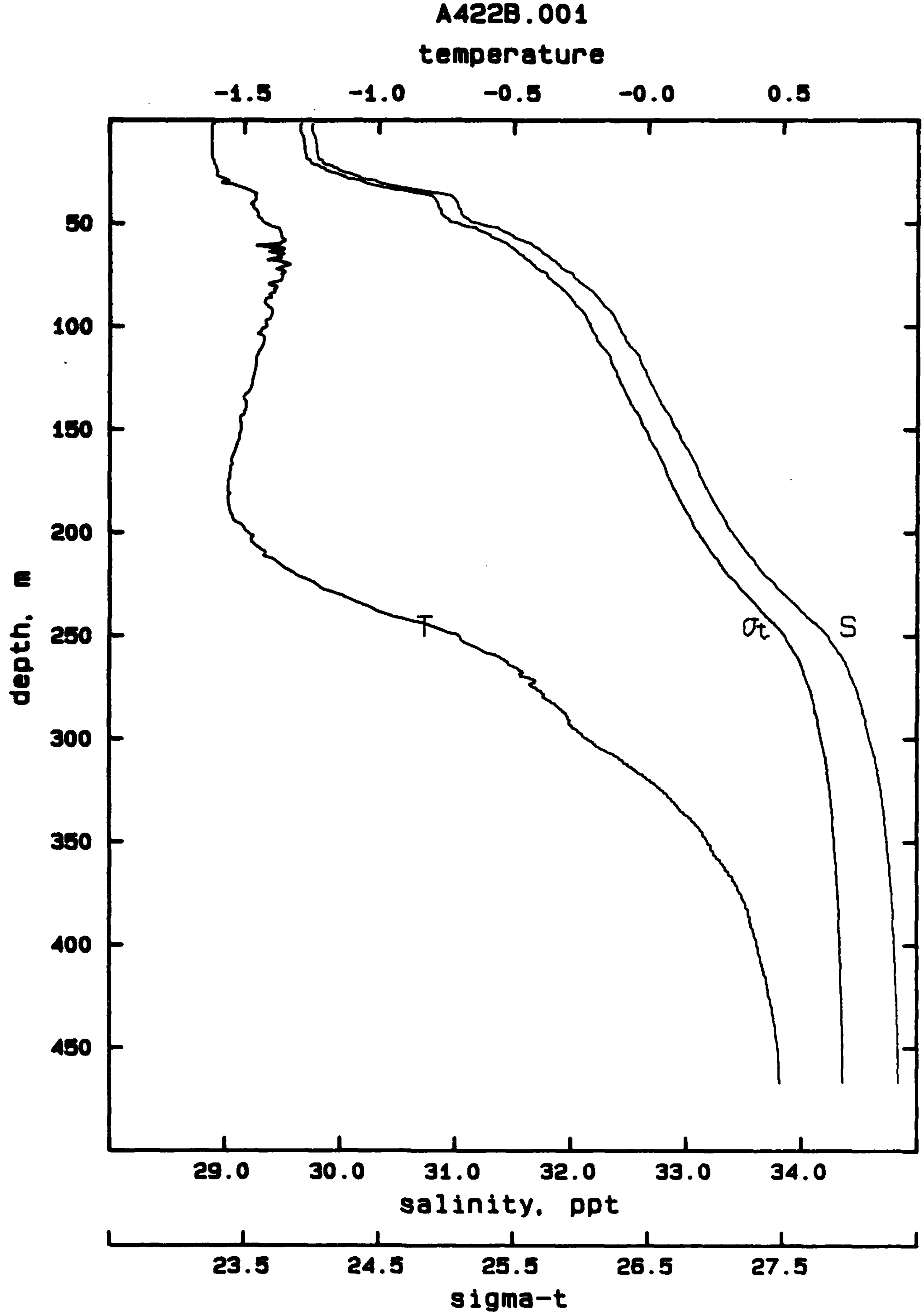

A421A.003
temperature
-1.5
-1.0
-0.5
-0.0
0.5
depth, m
50
100
150
200
250
300
350
400
450
T
σt
S
29.0
30.0
31.0
32.0
33.0
34.0
salinity, ppt
23.5
24.5
25.5
26.5
27.5
sigma-t

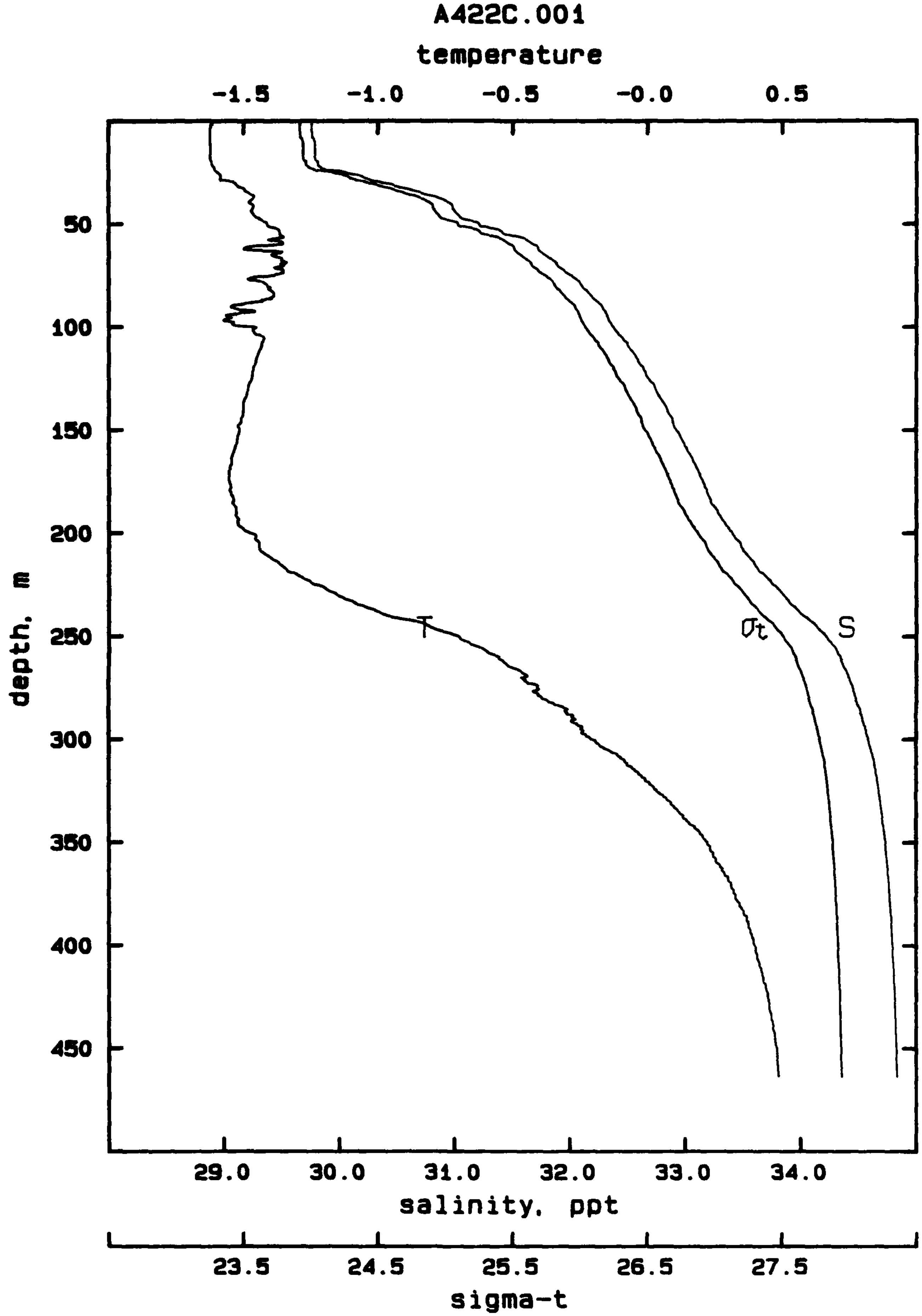

A421B.002
temperature
-1.5
-1.0
-0.5
-0.0
0.5
depth., m
50
100
150
200
250
300
350
400
450
T
σt
S
29.0
30.0
31.0
32.0
33.0
34.0
salinity, ppt
23.5
24.5
25.5
26.5
27.5
sigma-t

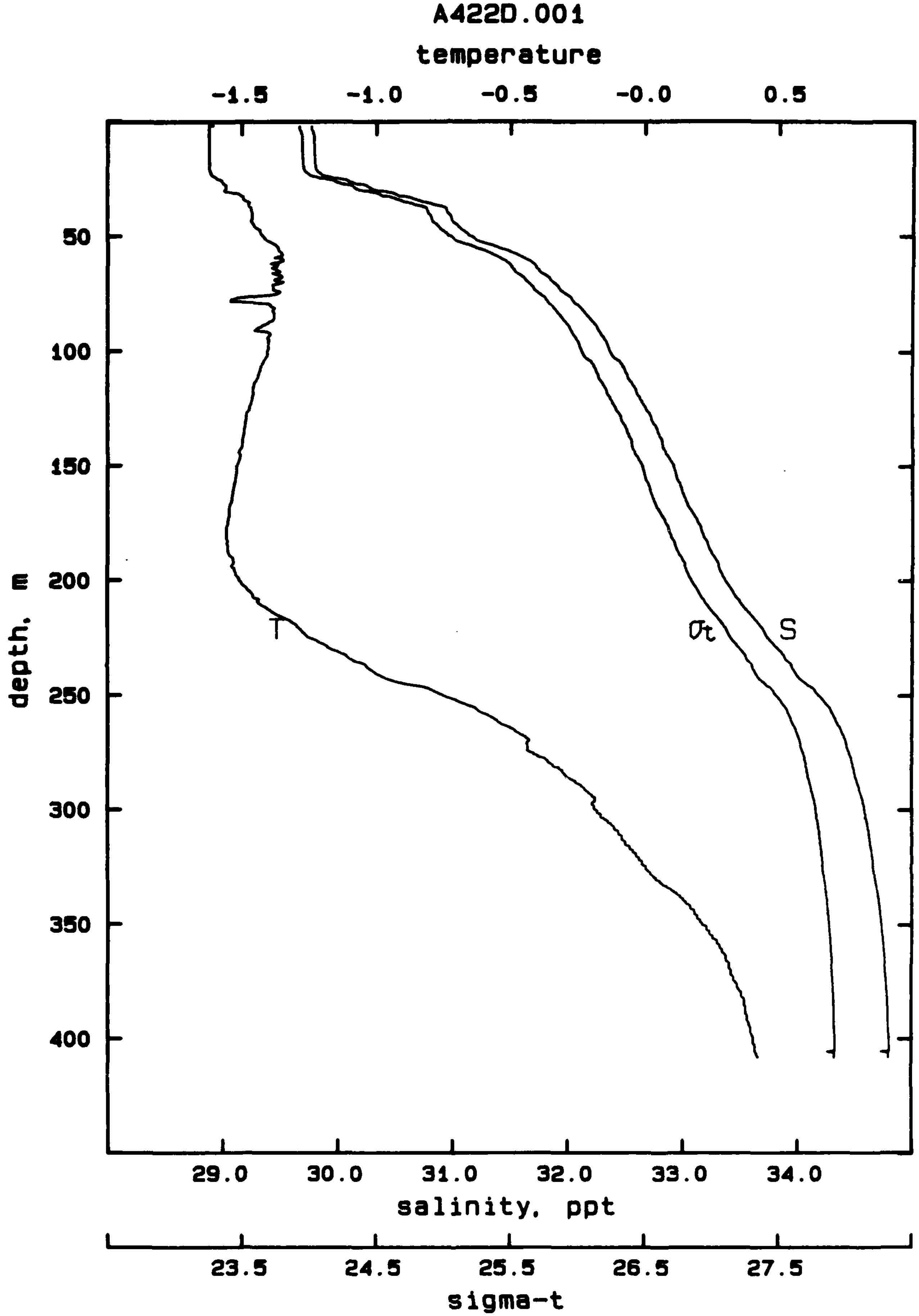

A421C.001
temperature
-1.5
-1.0
-0.5
-0.0
0.5
depth, m
50
100
150
200
250
300
350
400
450
T
σt
S
29.0
30.0
31.0
32.0
33.0
34.0
salinity, ppt
23.5
24.5
25.5
26.5
27.5
sigma-t

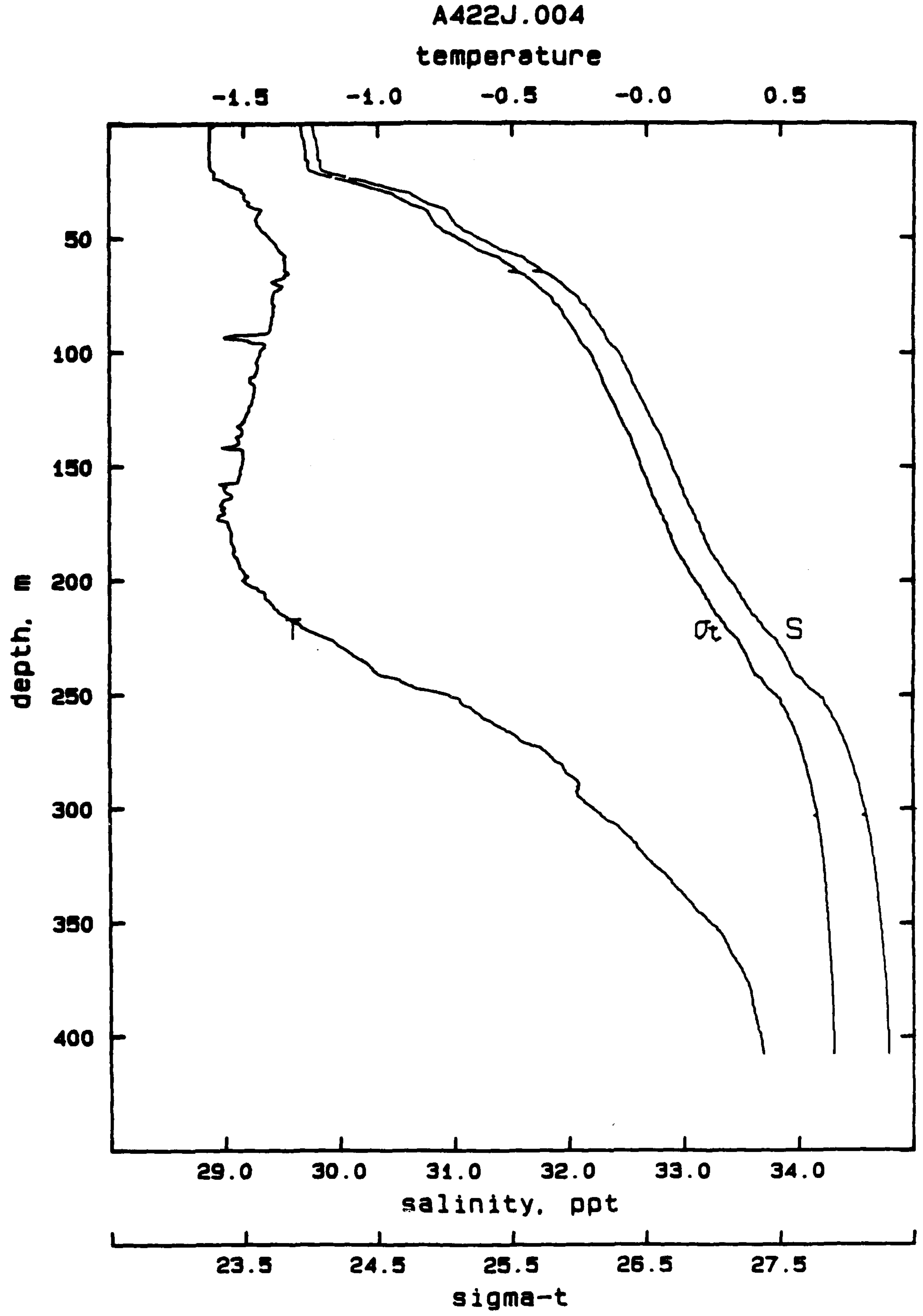

A421D.001
temperature
-1.5
-1.0
-0.5
-0.0
0.5
50
100
150
200
250
300
350
400
450
depth, m
T
σt
S
29.0
30.0
31.0
32.0
33.0
34.0
salinity, ppt
23.5
24.5
25.5
26.5
27.5
sigma-t

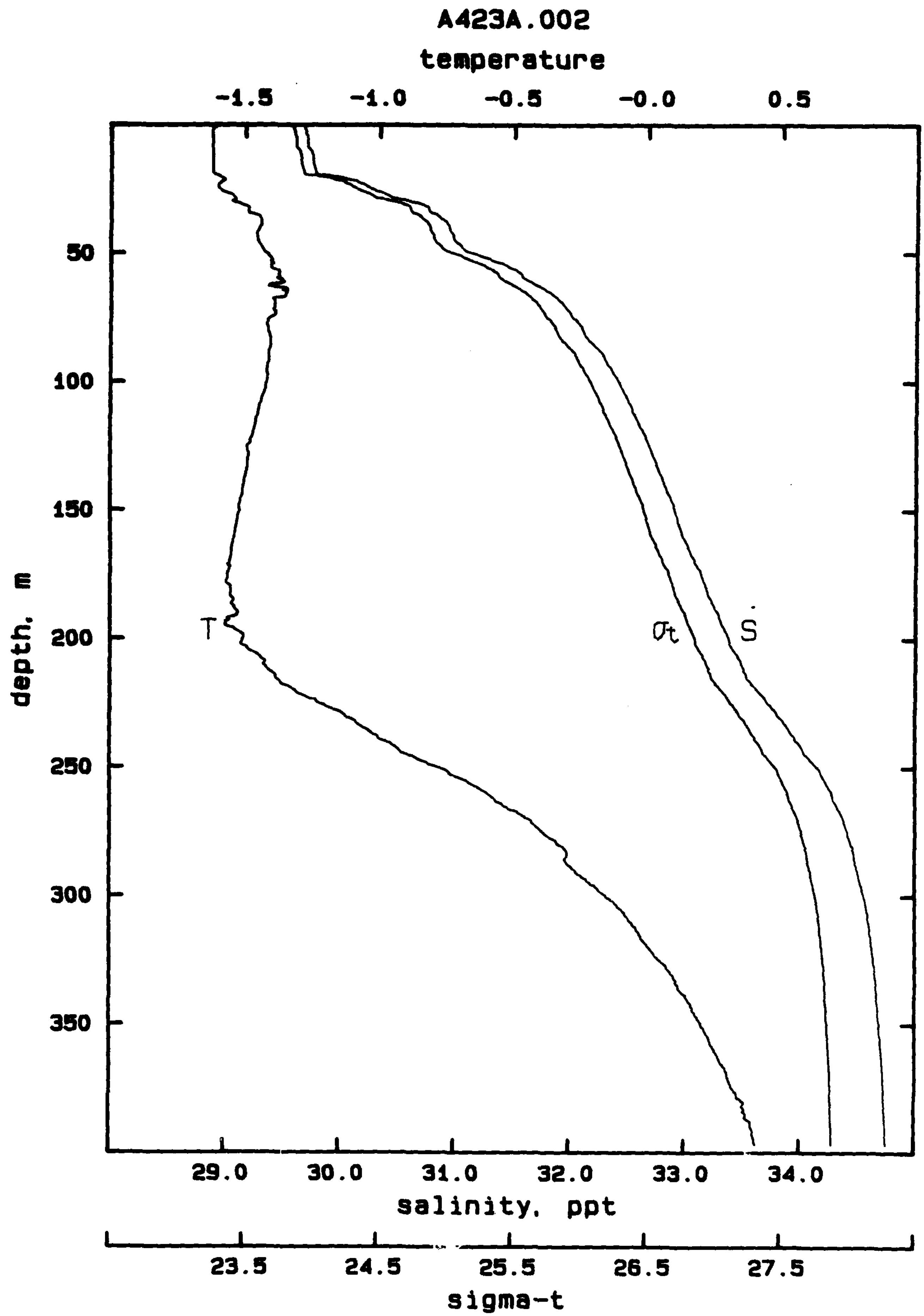

A422A.001
temperature
-1.5
-1.0
-0.5
-0.0
0.5
depth, m
50
100
150
200
250
300
350
400
450
T
σt
S
29.0
30.0
31.0
32.0
33.0
34.0
salinity, ppt
23.5
24.5
25.5
26.5
27.5
sigma-t

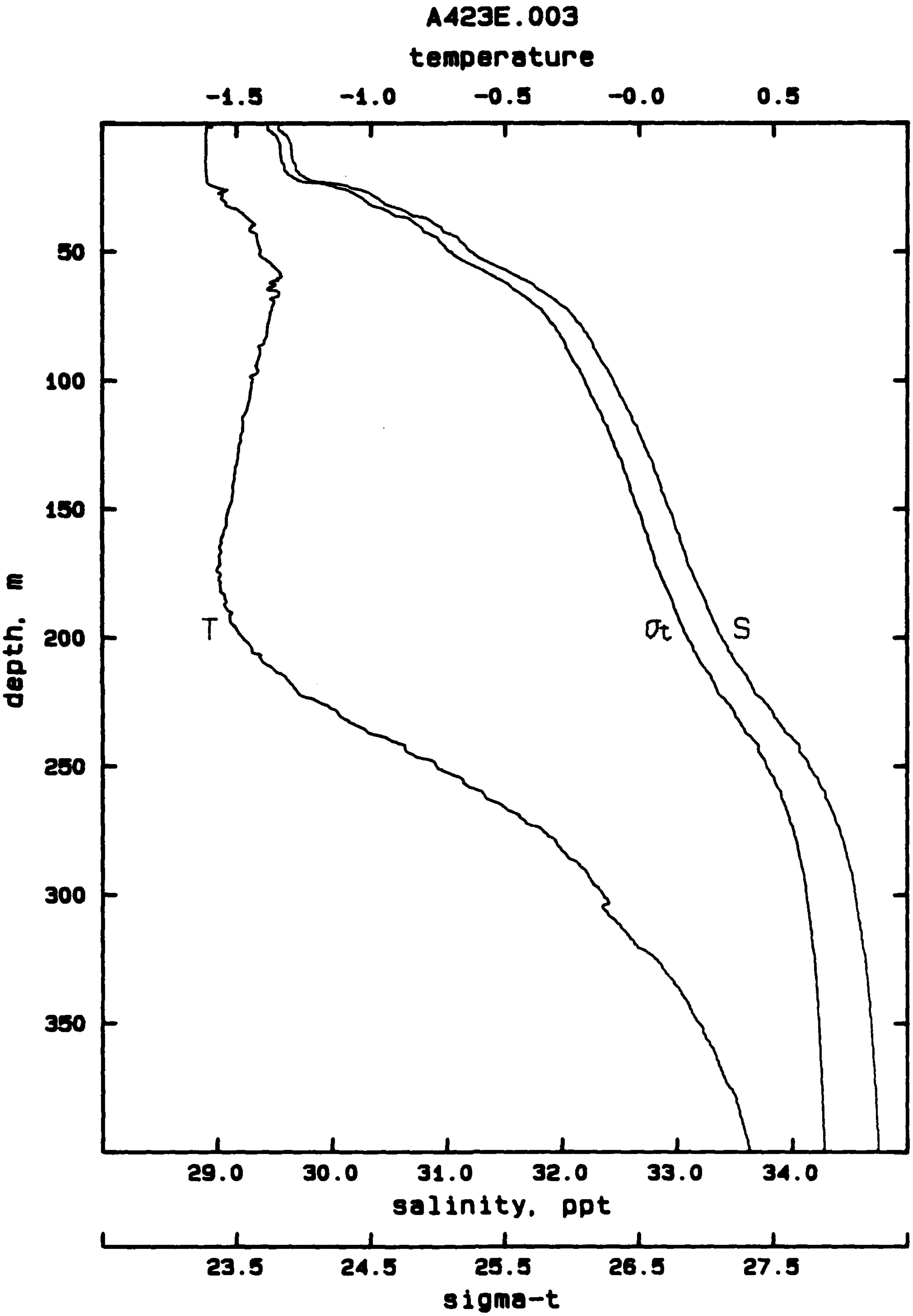

A422B.001
temperature
-1.5
-1.0
-0.5
-0.0
0.5
50
100
150
200
250
300
350
400
450
depth, m
T
σt
S
29.0
30.0
31.0
32.0
33.0
34.0
salinity, ppt
23.5
24.5
25.5
26.5
27.5
sigma-t

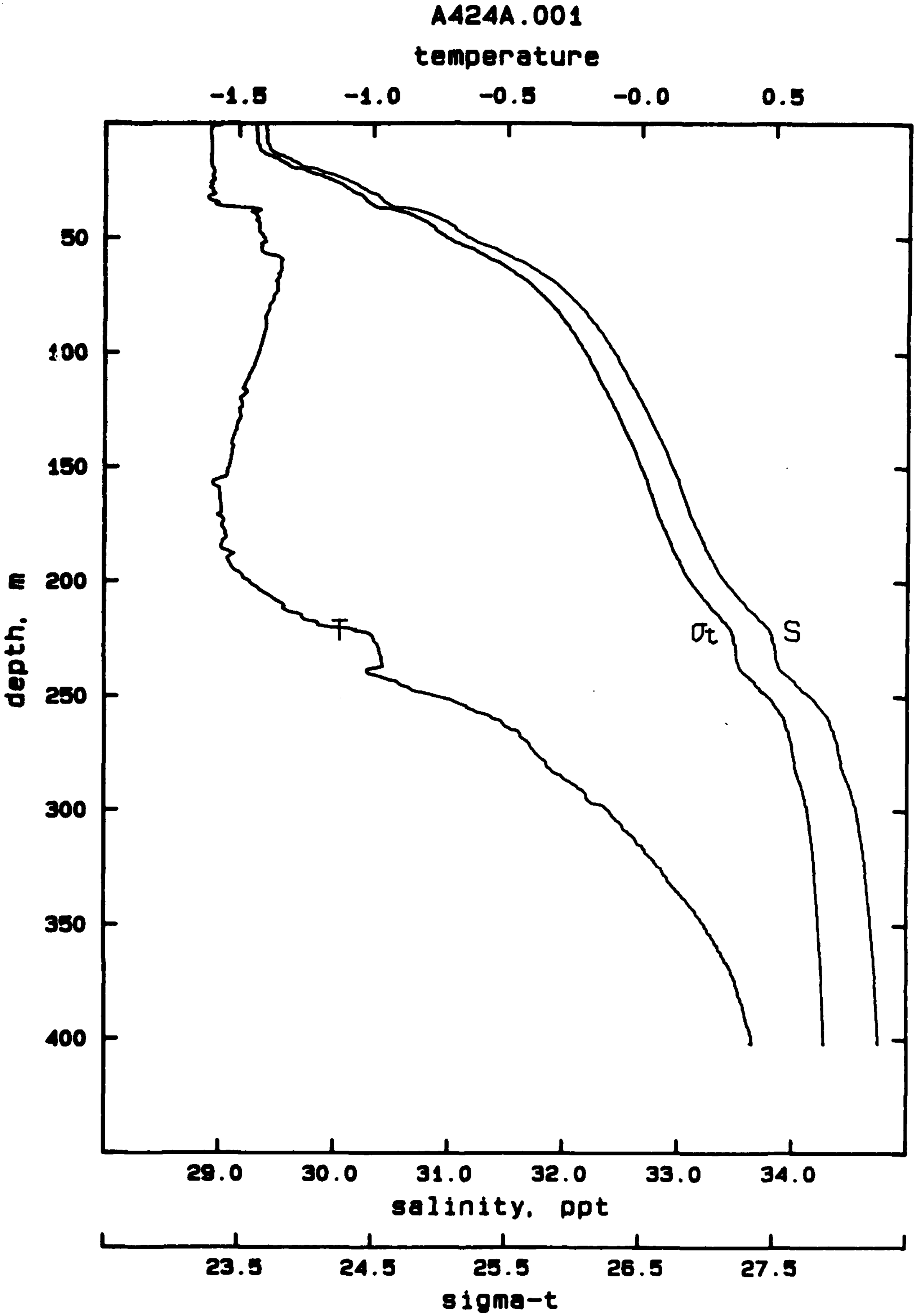

A422C.001
temperature
-1.5
-1.0
-0.5
-0.0
0.5
50
100
150
200
250
300
350
400
450
depth, m
T
σt
S
29.0
30.0
31.0
32.0
33.0
34.0
salinity, ppt
23.5
24.5
25.5
26.5
27.5
sigma-t

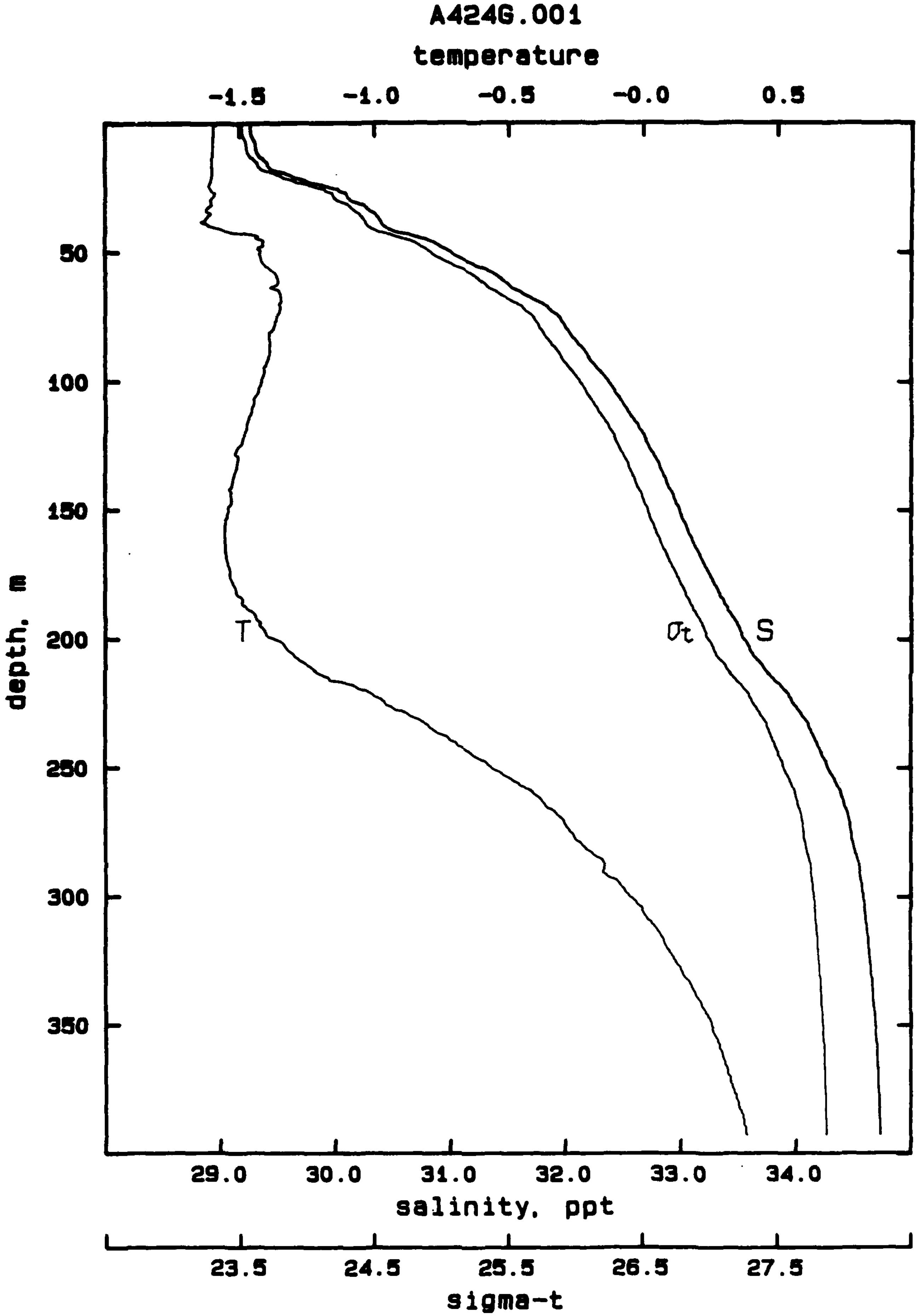

A422D.001
temperature
-1.5
-1.0
-0.5
-0.0
0.5
depth, m
50
100
150
200
250
300
350
400
T
σt
S
29.0
30.0
31.0
32.0
33.0
34.0
salinity, ppt
23.5
24.5
25.5
26.5
27.5
sigma-t

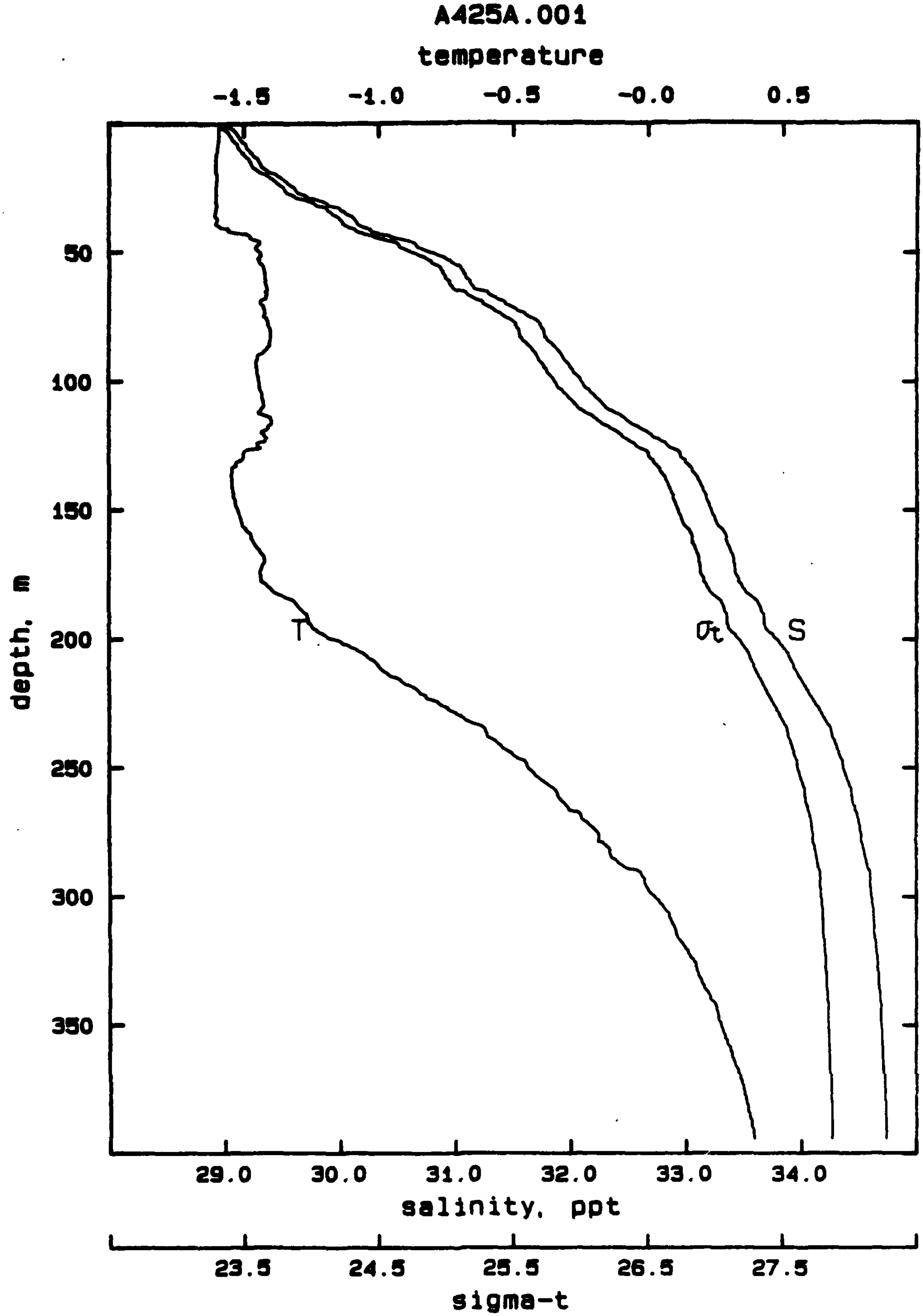

A422J.004
temperature
-1.5
-1.0
-0.5
-0.0
0.5
depth, m
50
100
150
200
250
300
350
400
T
σt
S
29.0
30.0
31.0
32.0
33.0
34.0
salinity, ppt
23.5
24.5
25.5
26.5
27.5
sigma-t


A423A.002
temperature
-1.5
-1.0
-0.5
-0.0
0.5
50
100
150
200
250
300
350
depth, m
T
σt
S
29.0
30.0
31.0
32.0
33.0
34.0
salinity, ppt
23.5
24.5
25.5
26.5
27.5
sigma-t

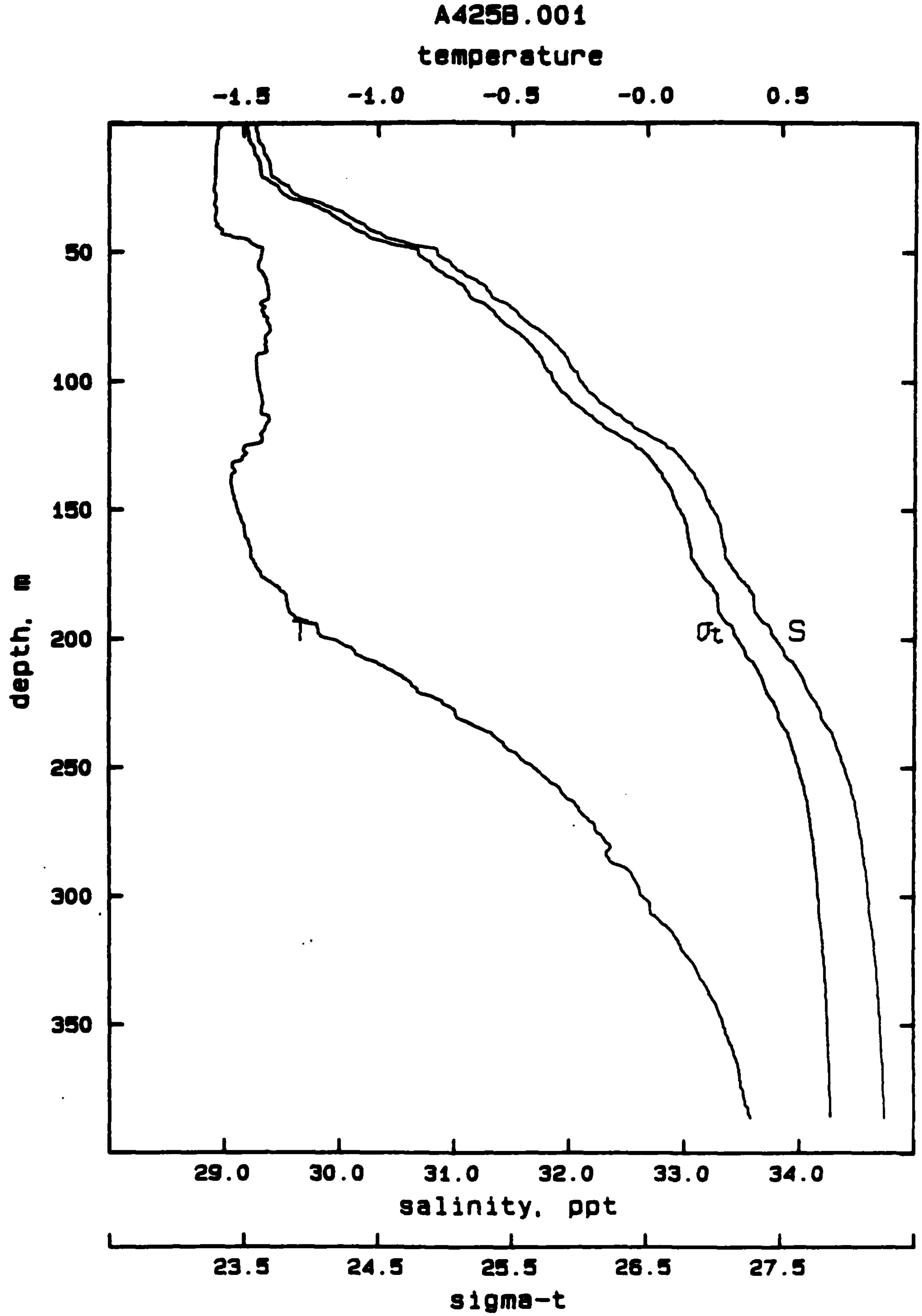

A423E.003
temperature
-1.5
-1.0
-0.5
-0.0
0.5
50
100
150
200
250
300
350
depth, m
T
σ_t
S
29.0
30.0
31.0
32.0
33.0
34.0
salinity, ppt
23.5
24.5
25.5
26.5
27.5
sigma-t

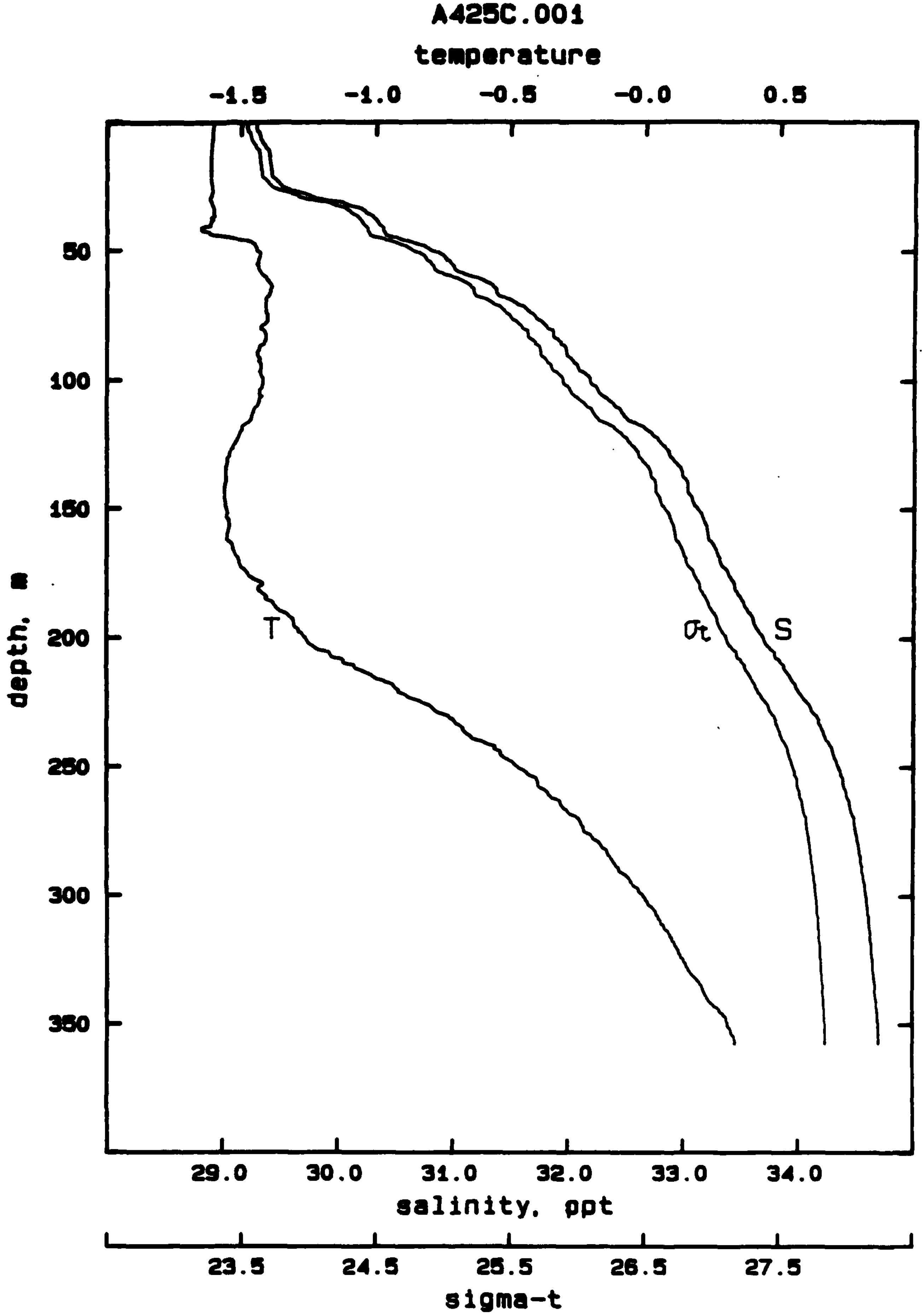

A424A.001
temperature
-1.5
-1.0
-0.5
-0.0
0.5
50
100
150
200
250
300
350
400
depth, m
T
σt
S
29.0
30.0
31.0
32.0
33.0
34.0
salinity, ppt
23.5
24.5
25.5
26.5
27.5
sigma-t

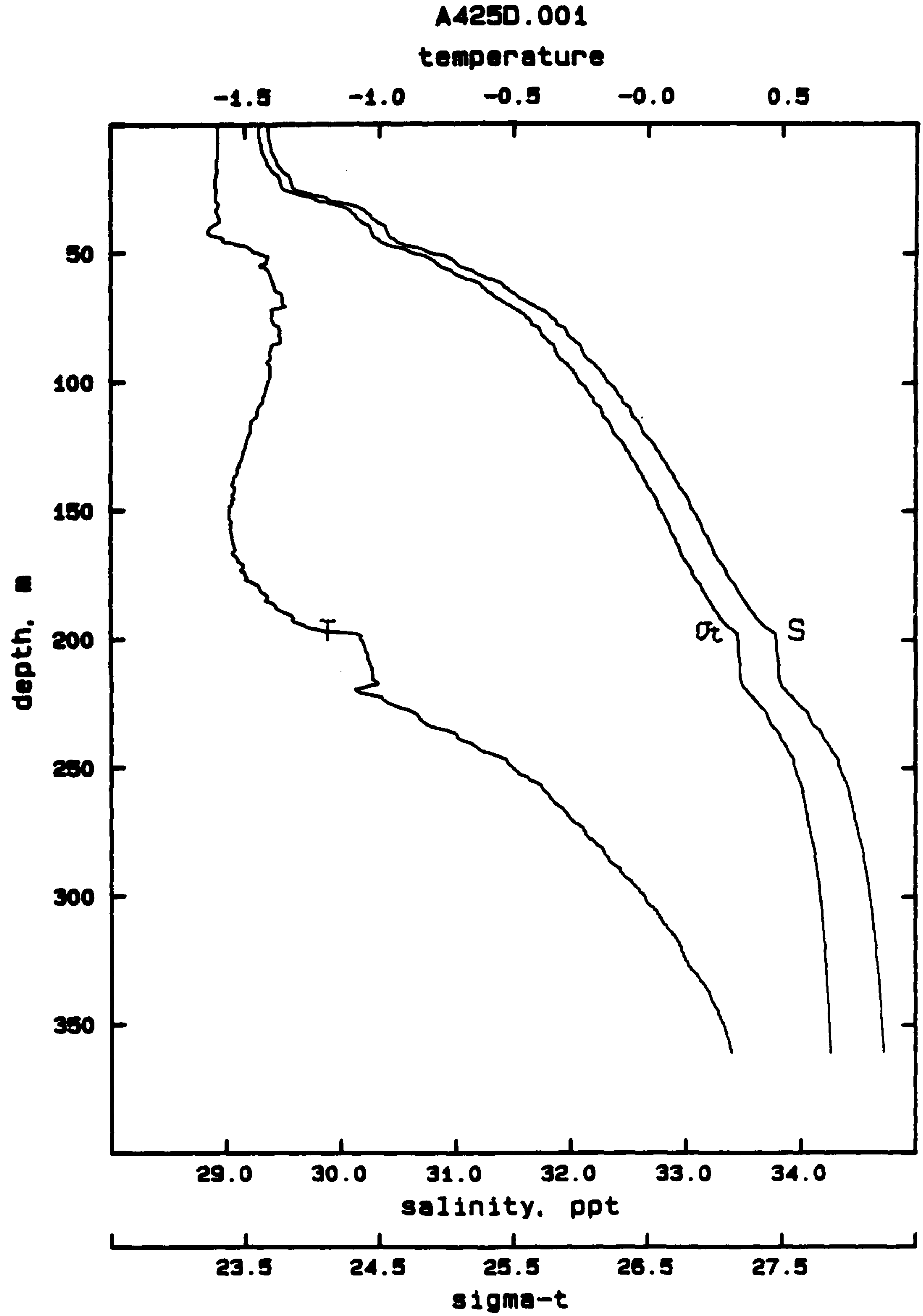

A424G.001
temperature
-1.5
-1.0
-0.5
-0.0
0.5
depth, m
50
100
150
200
250
300
350
T
σt
S
29.0
30.0
31.0
32.0
33.0
34.0
salinity, ppt
23.5
24.5
25.5
26.5
27.5
sigma-t

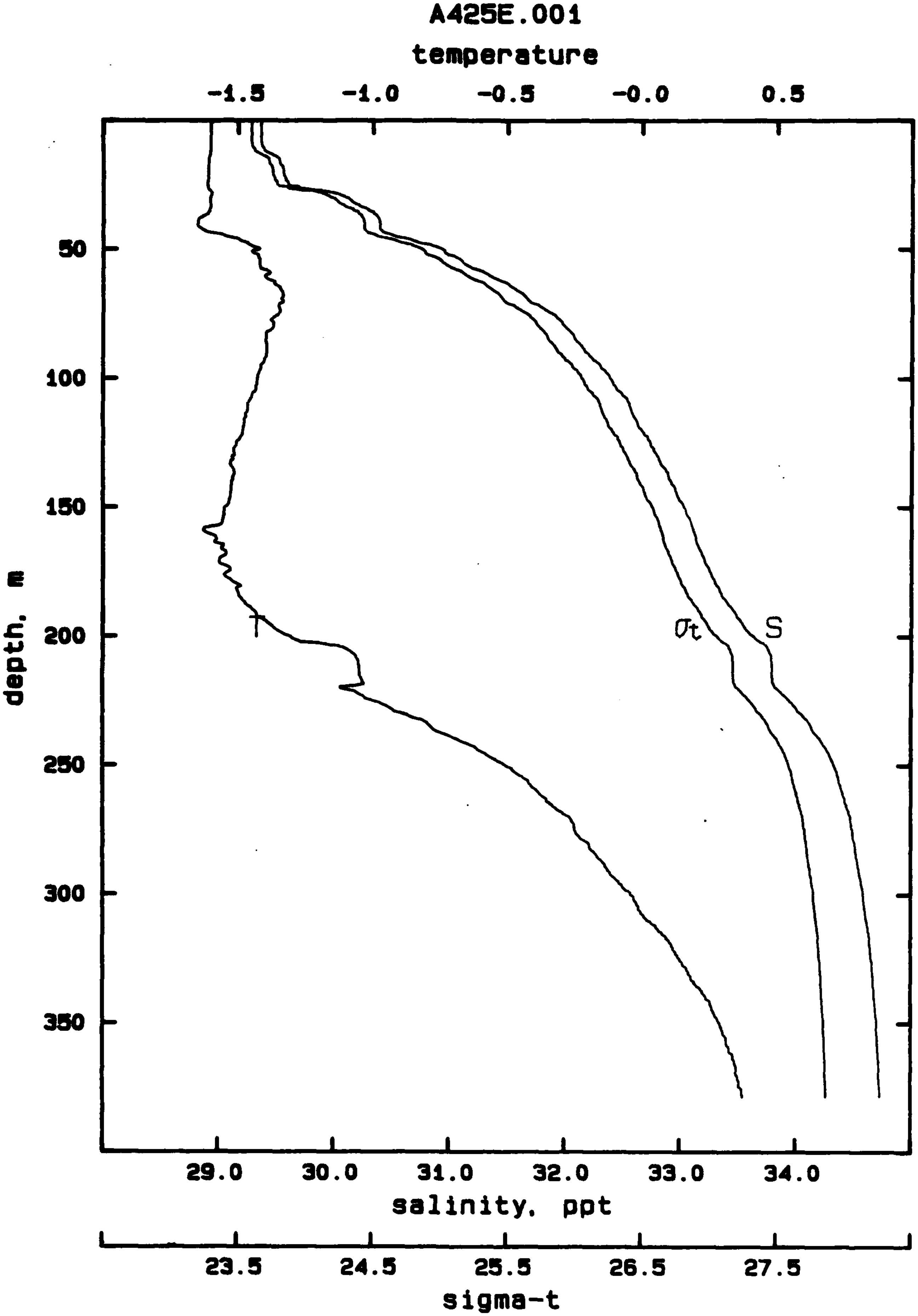


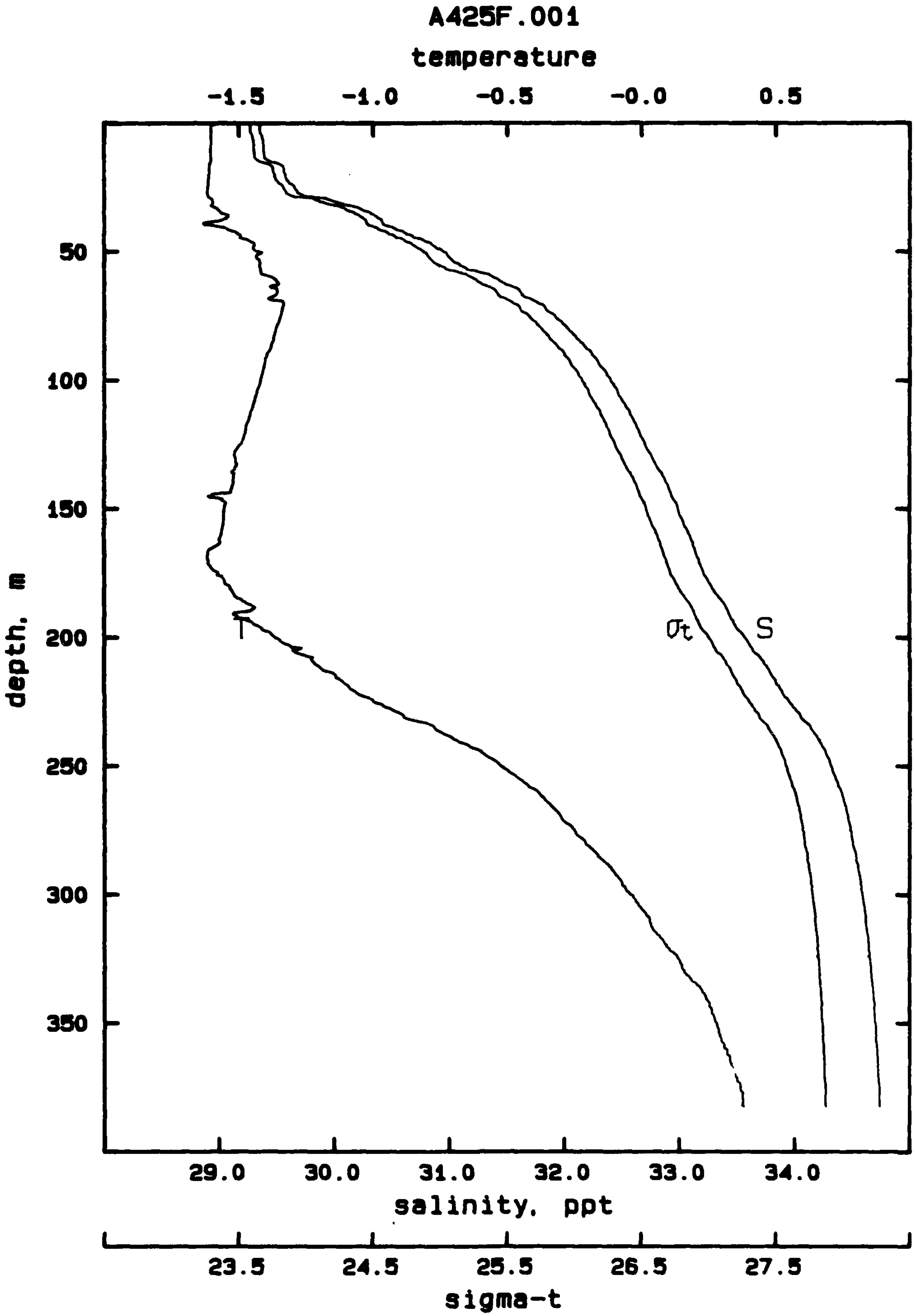
A425A.001
temperature
-1.5
-1.0
-0.5
-0.0
0.5
depth, m
50
100
150
200
250
300
350
T
σt
S
29.0
30.0
31.0
32.0
33.0
34.0
salinity, ppt
23.5
24.5
25.5
26.5
27.5
sigma-t

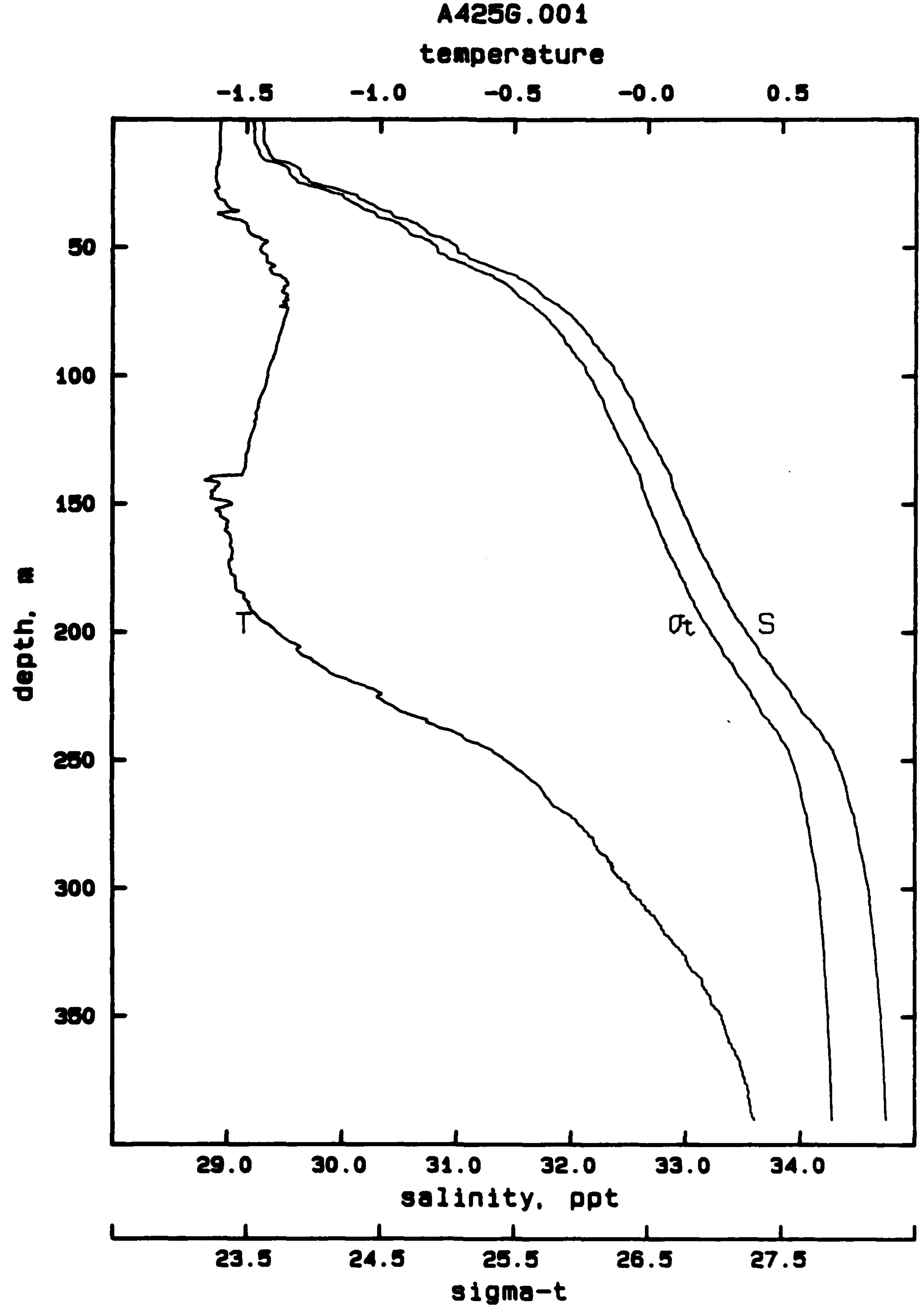

A425B.001
temperature
-1.5
-1.0
-0.5
-0.0
0.5
depth, m
50
100
150
200
250
300
350
T
σt
S
29.0
30.0
31.0
32.0
33.0
34.0
salinity, ppt
23.5
24.5
25.5
26.5
27.5
sigma-t

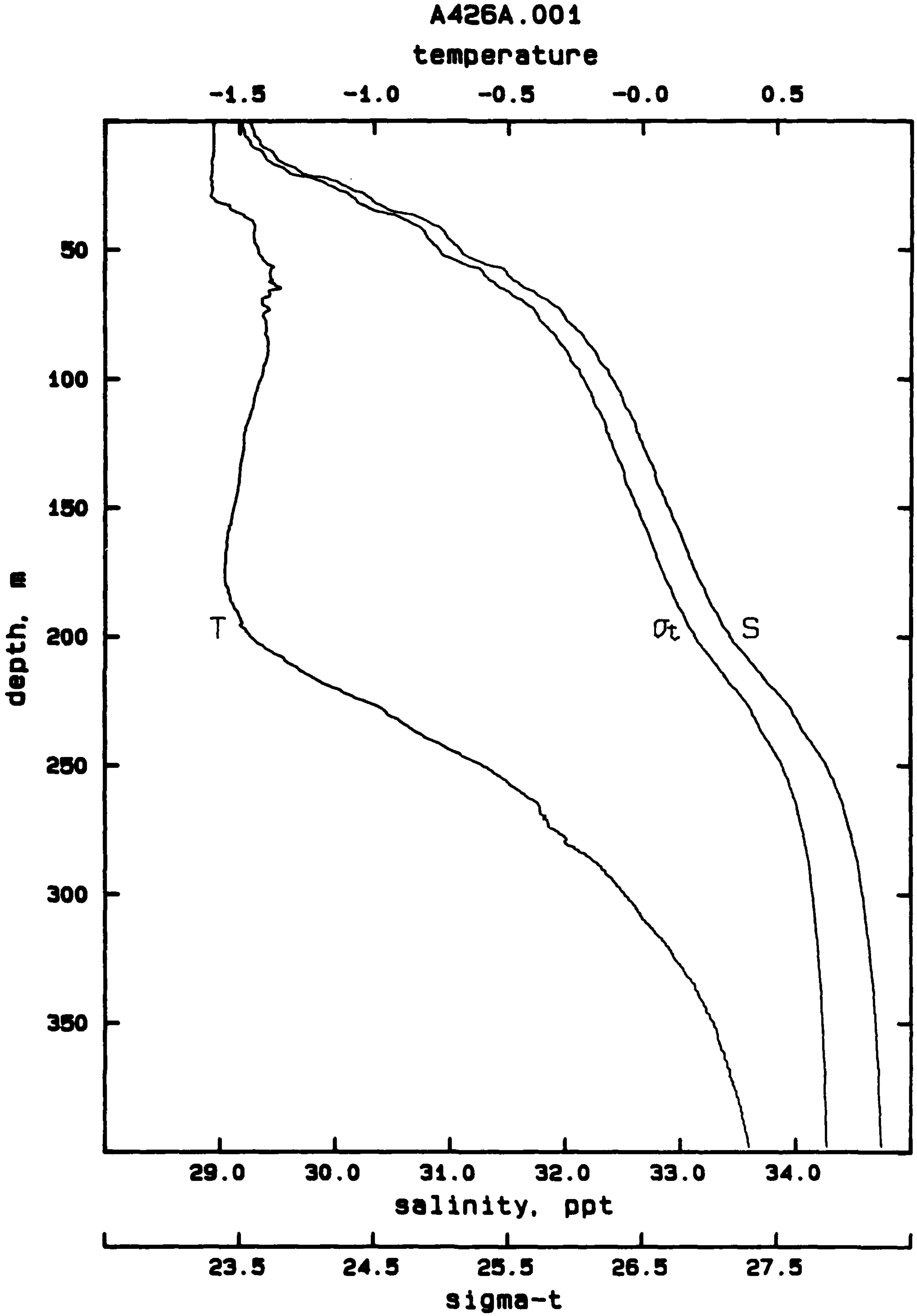

A425C.001
temperature
-1.5
-1.0
-0.5
-0.0
0.5
depth, m
50
100
150
200
250
300
350
T
σt
S
29.0
30.0
31.0
32.0
33.0
34.0
salinity, ppt
23.5
24.5
25.5
26.5
27.5
sigma-t


A425D.001
temperature
-1.5
-1.0
-0.5
-0.0
0.5
50
100
150
200
250
300
350
depth, m
T
σt
S
29.0
30.0
31.0
32.0
33.0
34.0
salinity, ppt
23.5
24.5
25.5
26.5
27.5
sigma-t


A425E.001
temperature
-1.5
-1.0
-0.5
-0.0
0.5
50
100
150
200
250
300
350
depth, m
T
σt
S
29.0
30.0
31.0
32.0
33.0
34.0
salinity, ppt
23.5
24.5
25.5
26.5
27.5
sigma-t

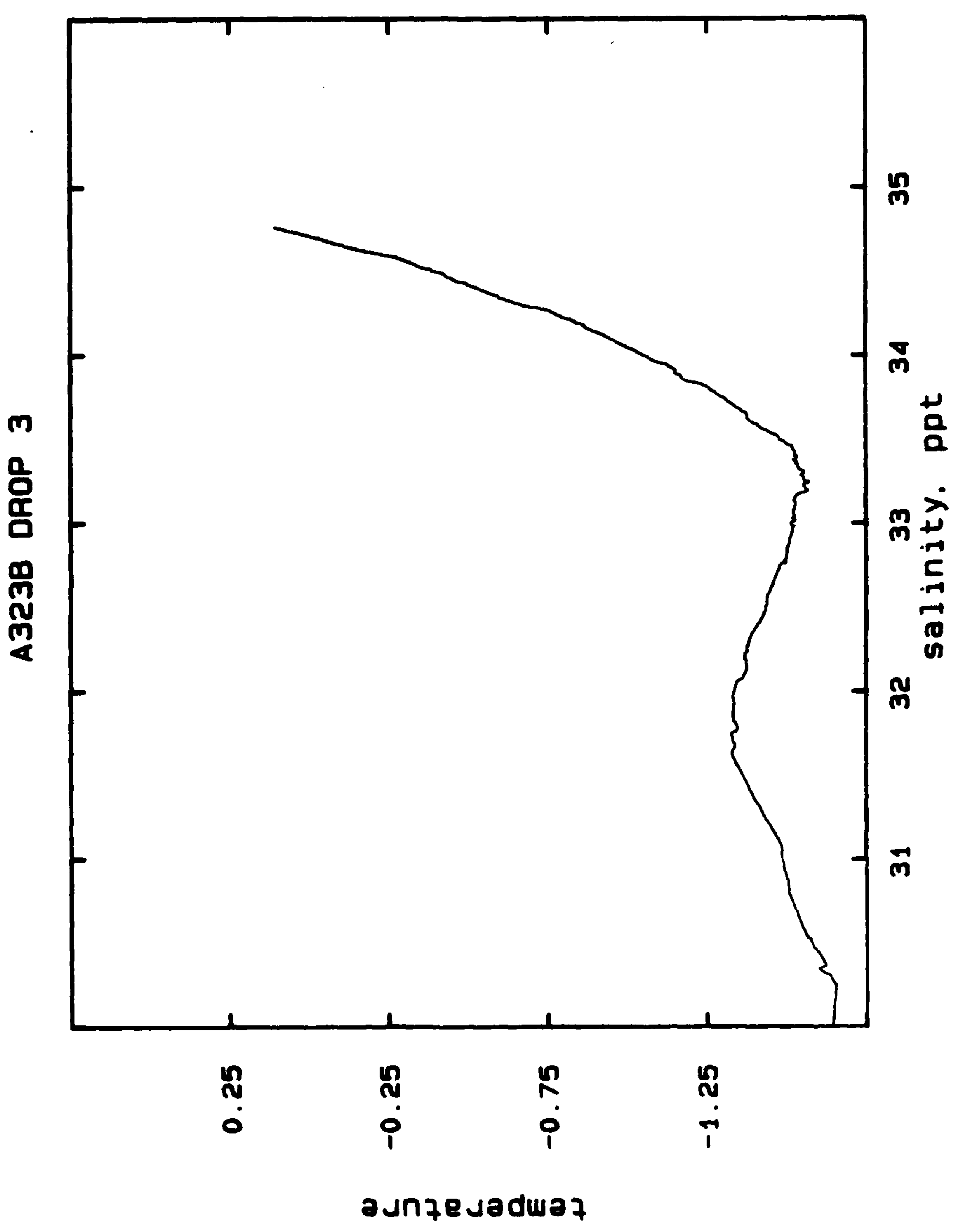

A425F.001
temperature
-1.5
-1.0
-0.5
-0.0
0.5
50
100
150
200
250
300
350
depth, m
T
σt
S
29.0
30.0
31.0
32.0
33.0
34.0
salinity, ppt
23.5
24.5
25.5
26.5
27.5
sigma-t

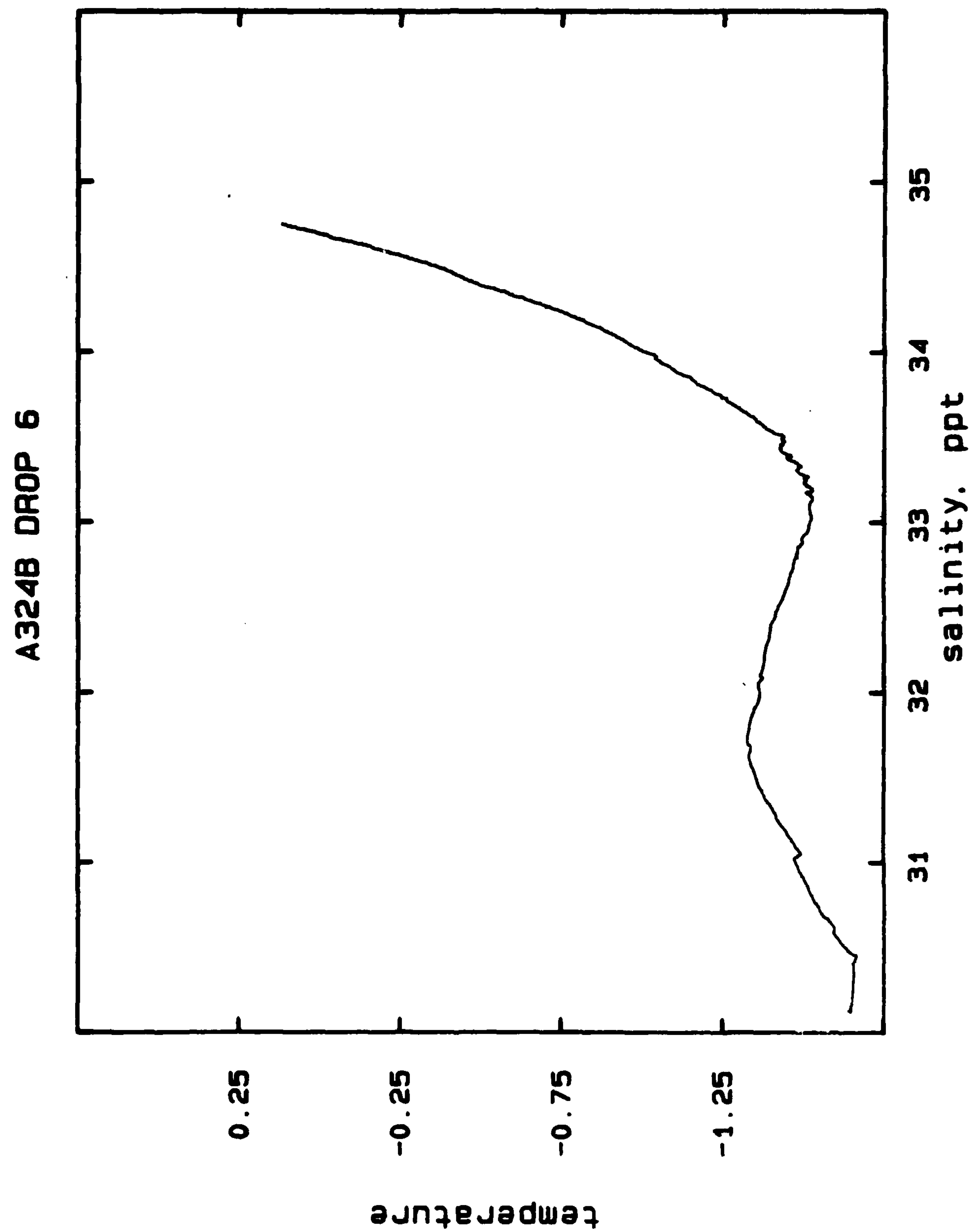

A425G.001
temperature
-1.5
-1.0
-0.5
-0.0
0.5
depth, m
50
100
150
200
250
300
350
T
σt
S
29.0
30.0
31.0
32.0
33.0
34.0
salinity, ppt
23.5
24.5
25.5
26.5
27.5
sigma-t

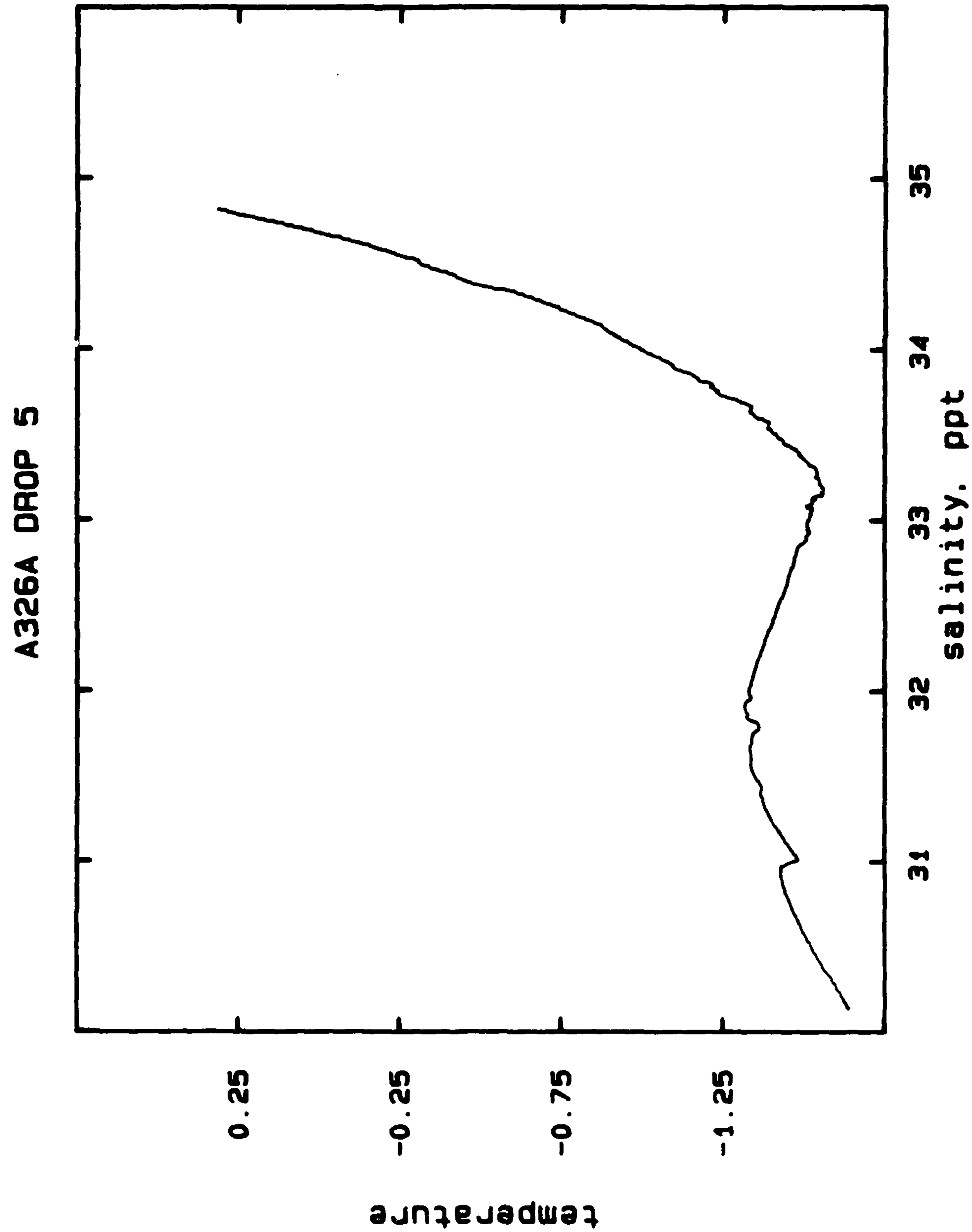

A426A.001
temperature
-1.5
-1.0
-0.5
-0.0
0.5
50
100
150
200
250
300
350
depth, m
T
σt
S
29.0
30.0
31.0
32.0
33.0
34.0
salinity, ppt
23.5
24.5
25.5
26.5
27.5
sigma-t

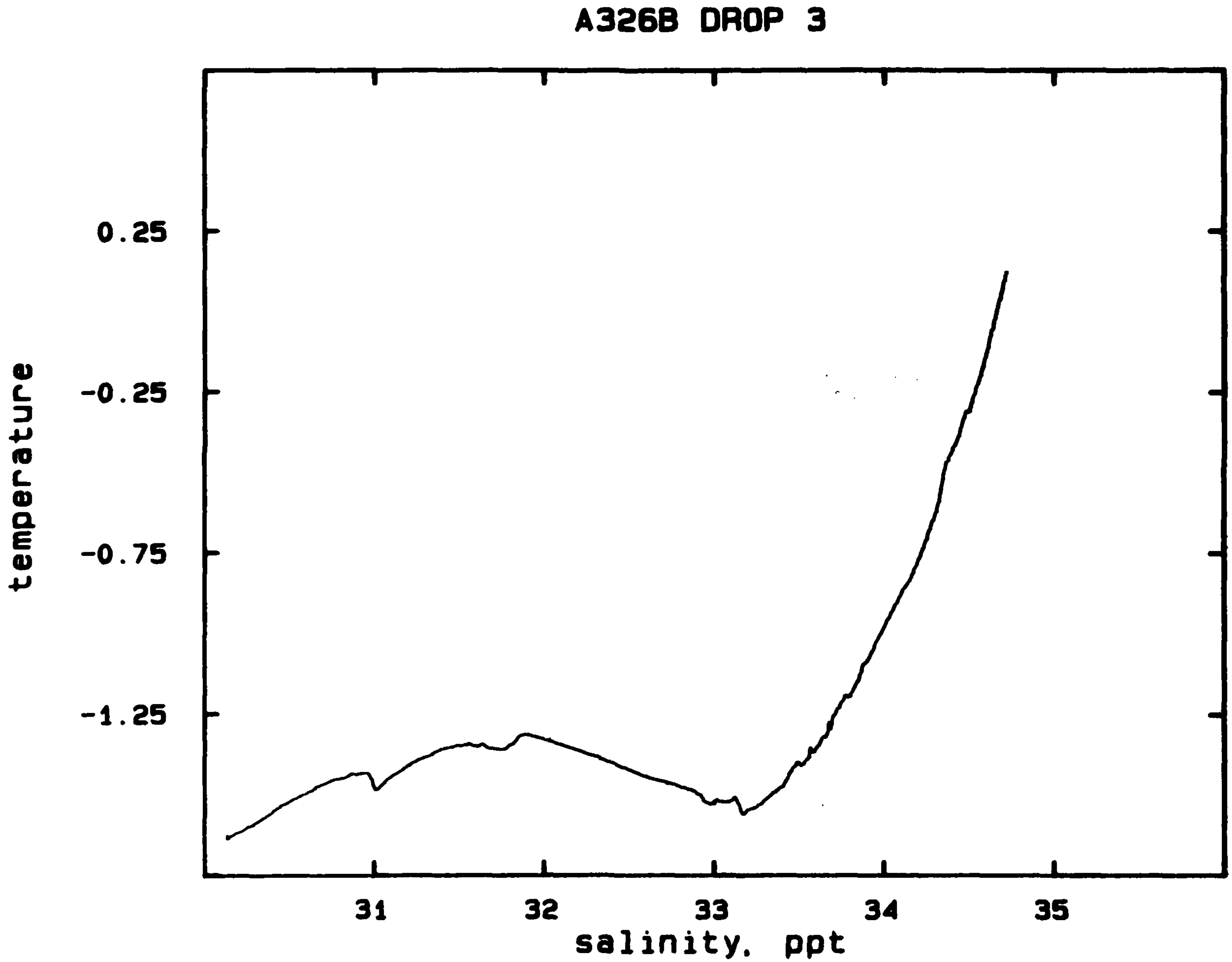
OBSERVATIONS:

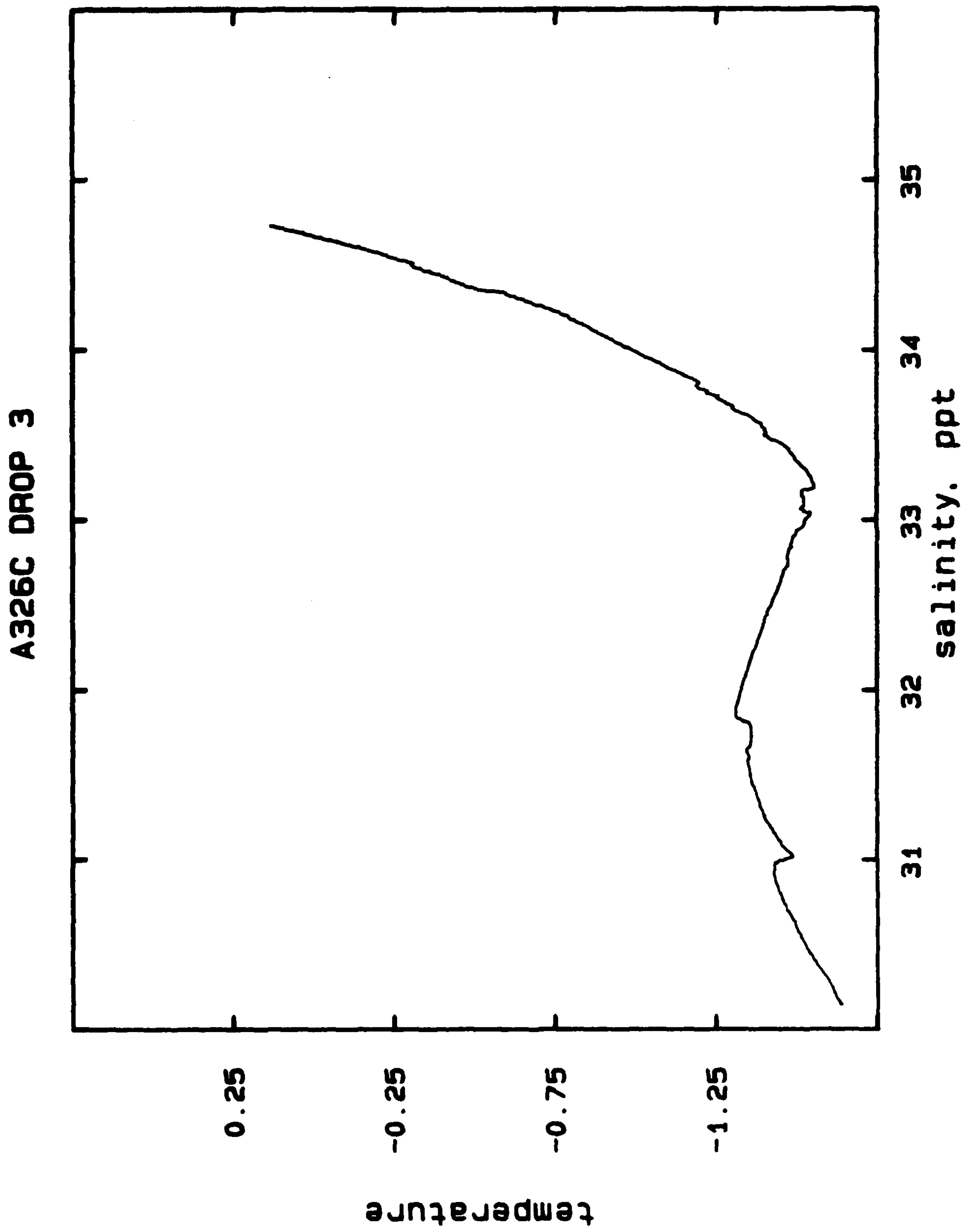
B. T-S DIAGRAMS

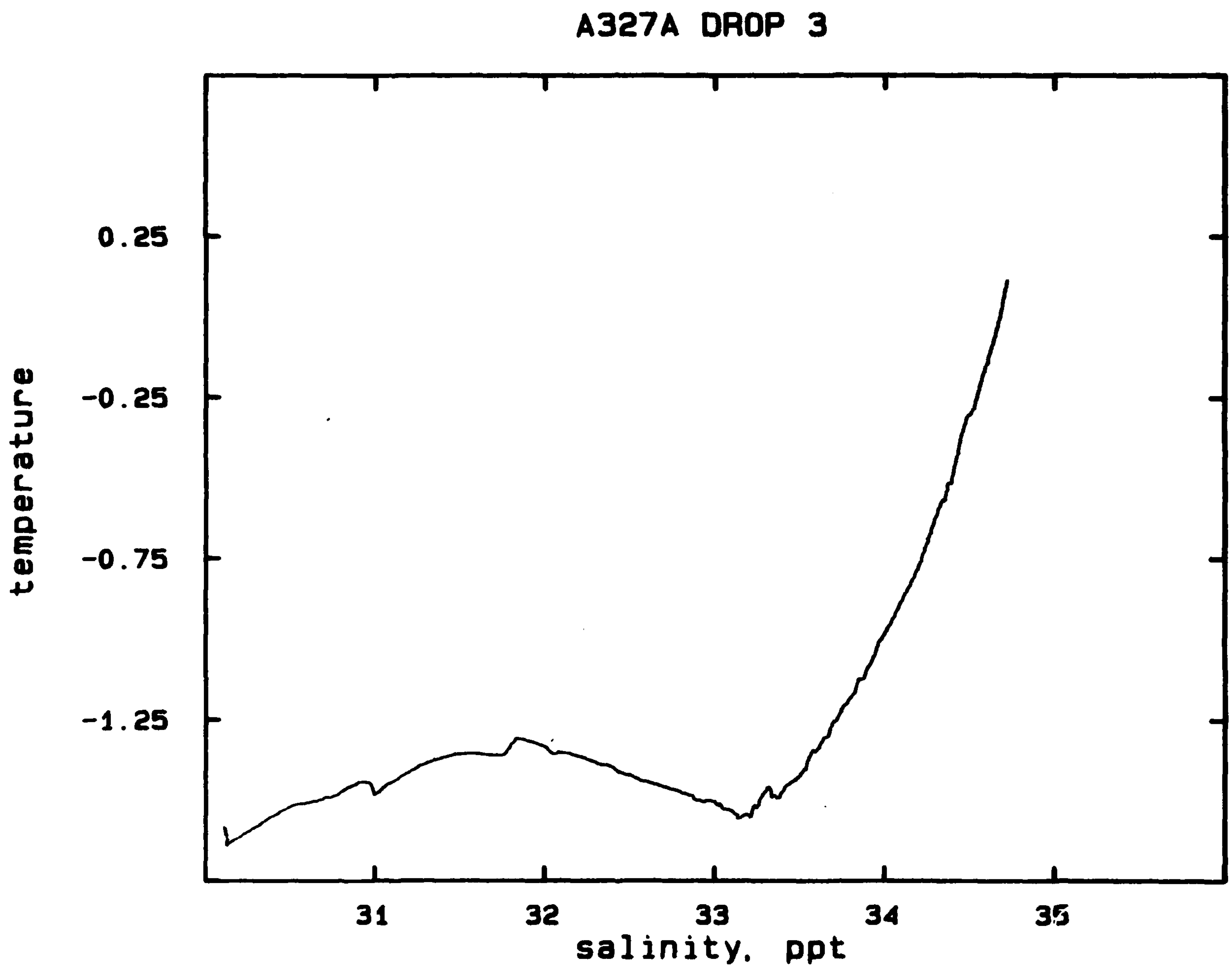

A323B DROP 3
temperature
0.25
-0.25
-0.75
-1.25
31
32
33
34
35
salinity, ppt

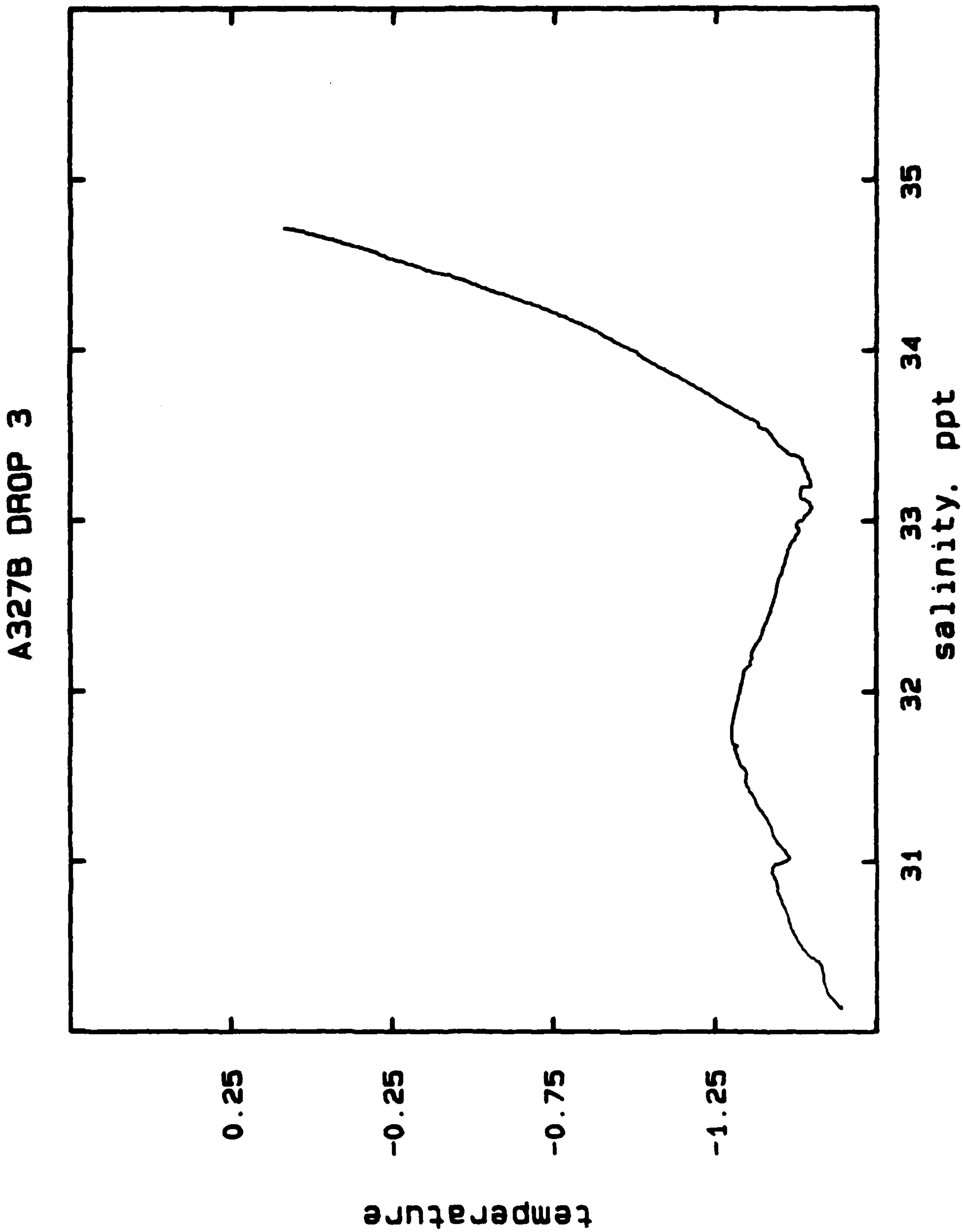

A324B DROP 6
0.25
-0.25
-0.75
-1.25
temperature
31
32
33
34
35
salinity, ppt

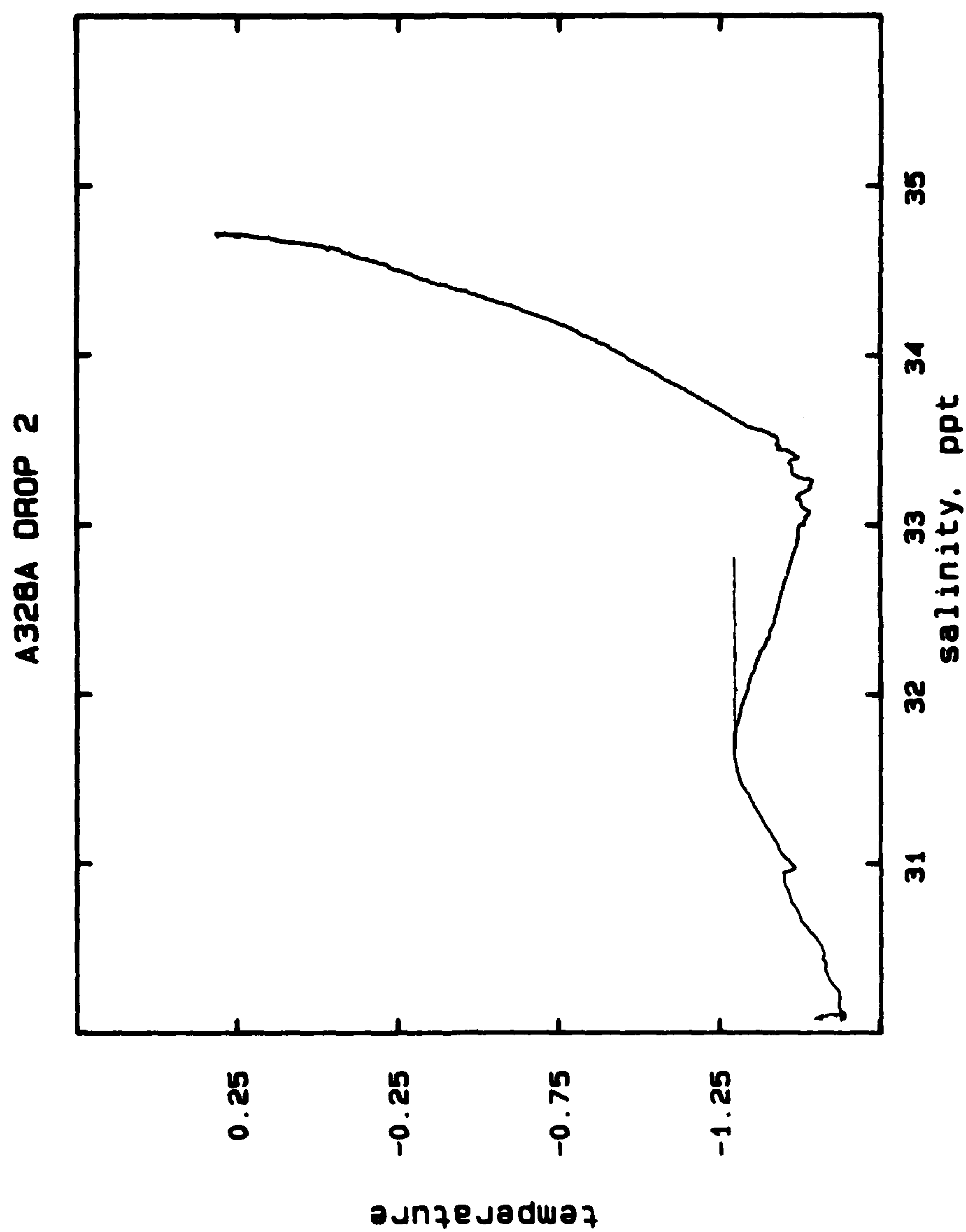

A326A DROP 5
temperature
0.25
-0.25
-0.75
-1.25
31
32
33
34
35
salinity, ppt

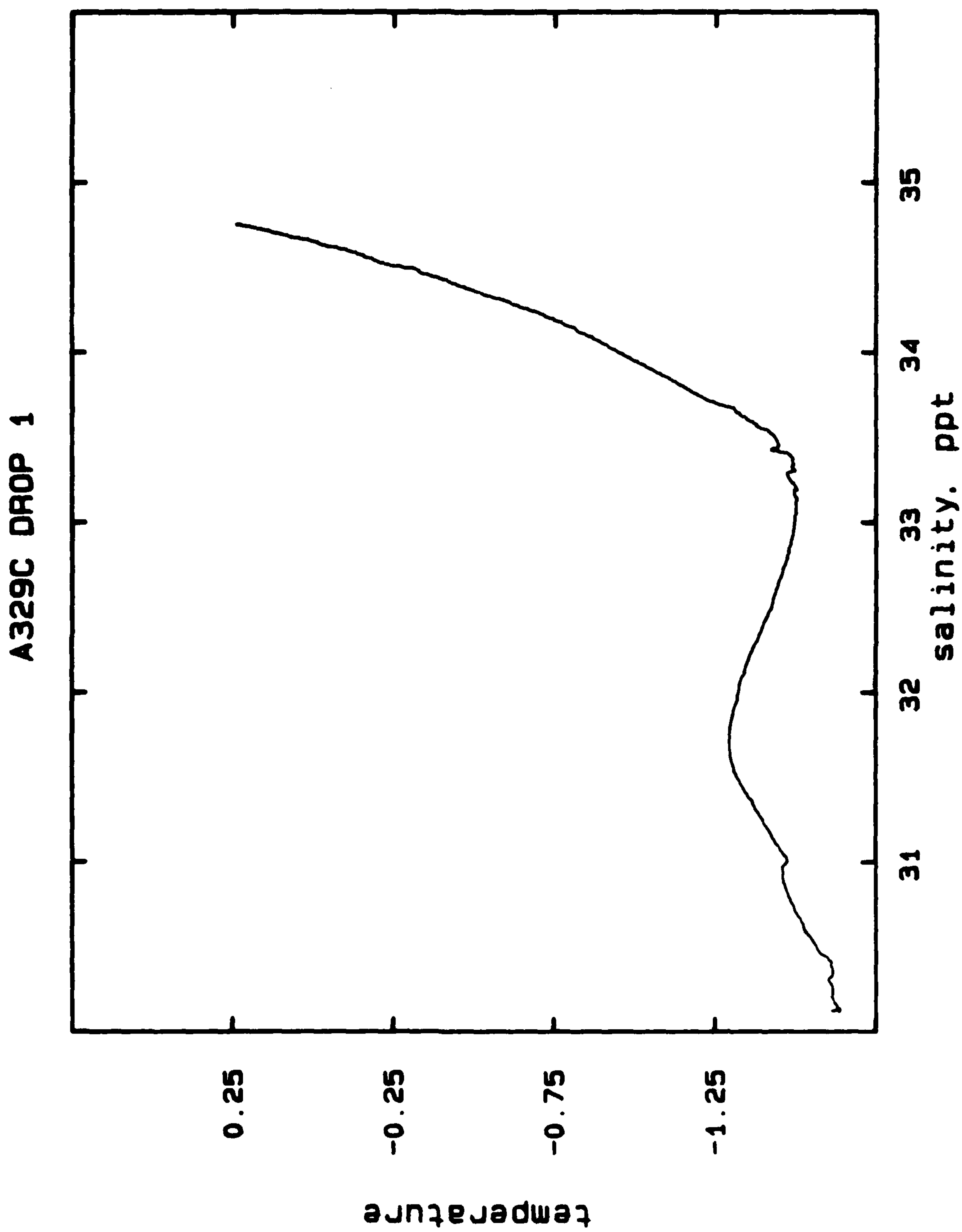

A326B DROP 3
temperature
0.25
-0.25
-0.75
-1.25
31
32
33
34
35
salinity, ppt


A326C DROP 3
salinity, ppt
temperature
31
32
33
34
35
0.25
-0.25
-0.75
-1.25

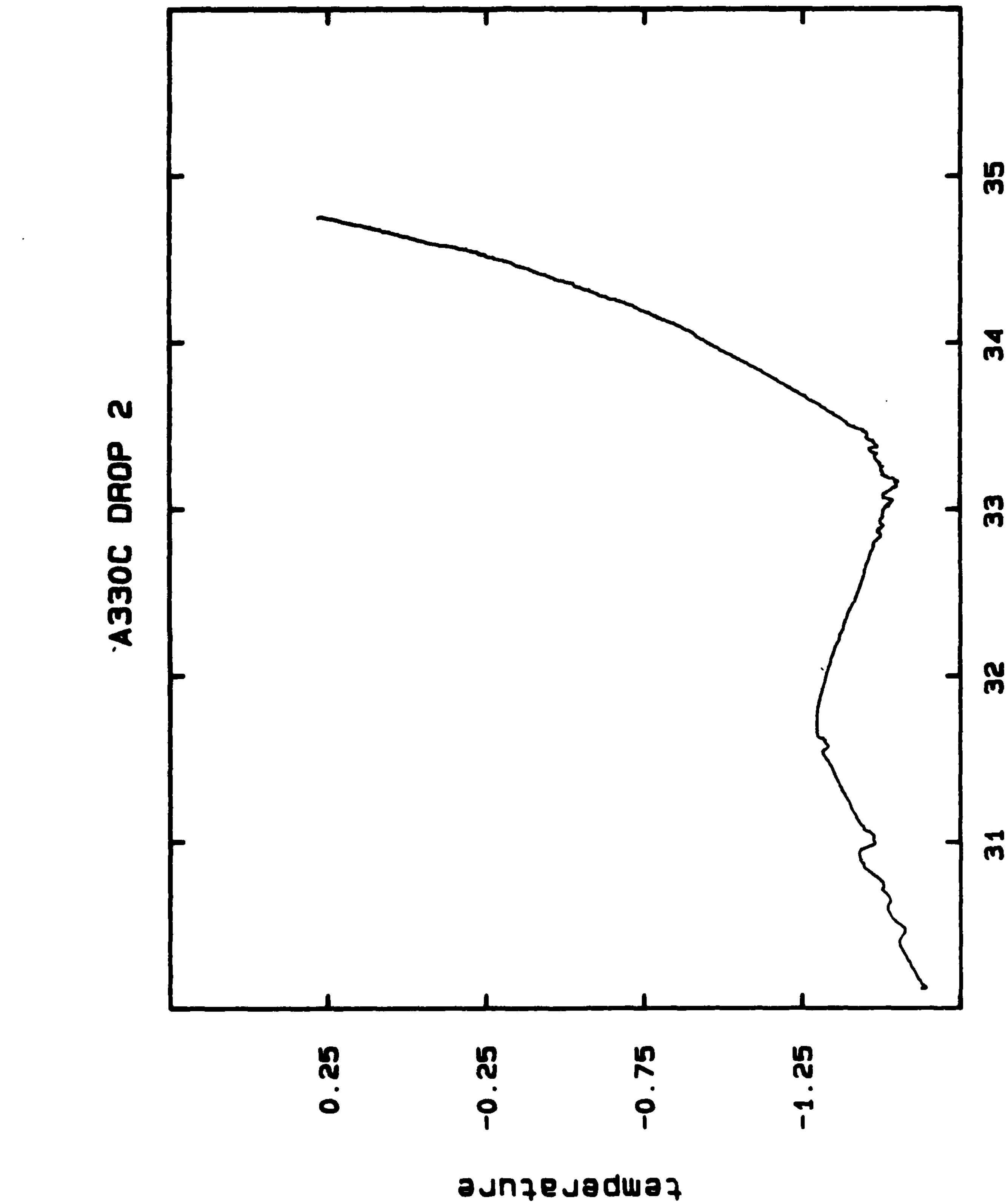

A327A DROP 3
0.25
-0.25
-0.75
-1.25
temperature
31
32
33
34
35
salinity, ppt

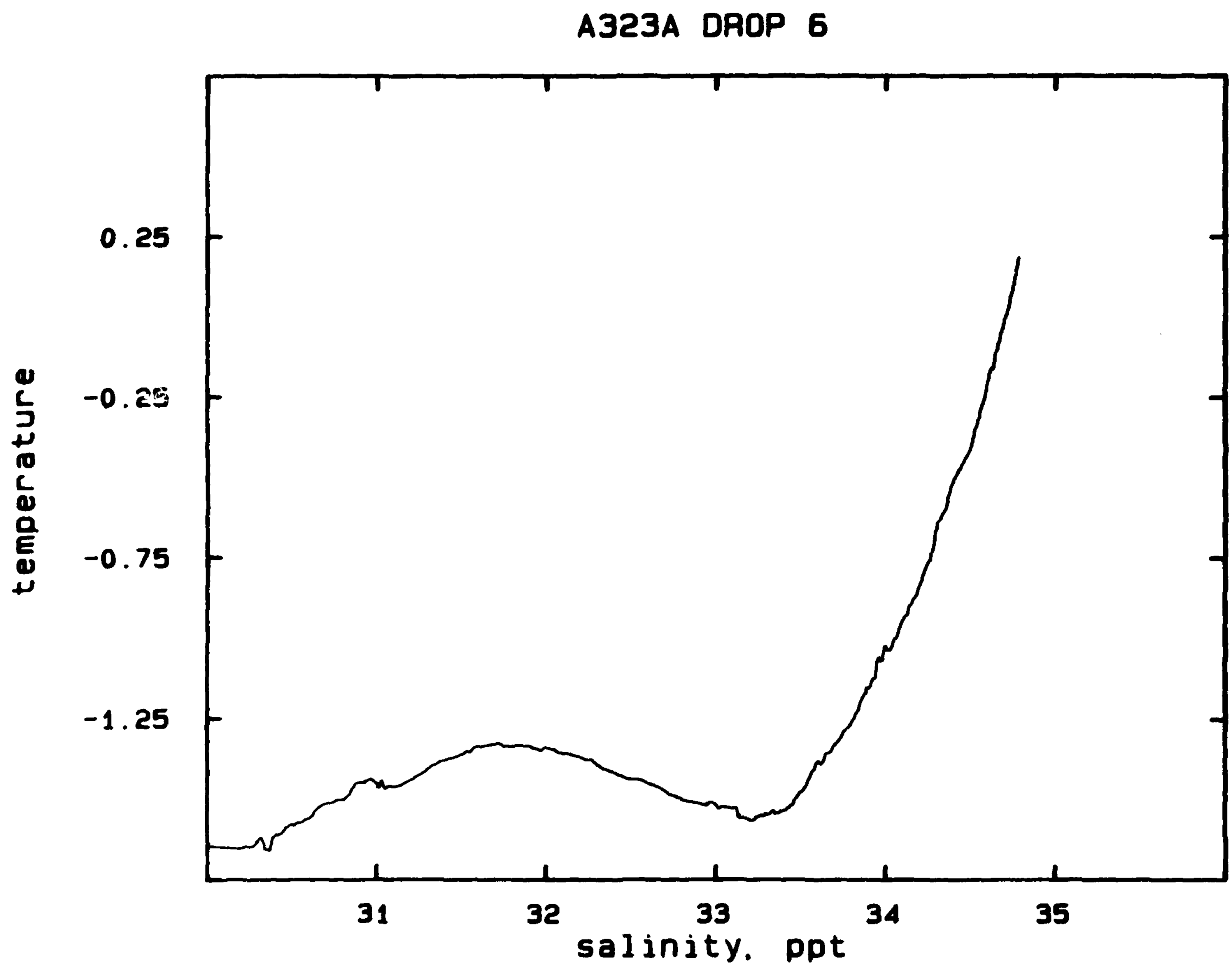

A327B DROP 3
salinity, ppt
31
32
33
34
35
temperature
0.25
-0.25
-0.75
-1.25

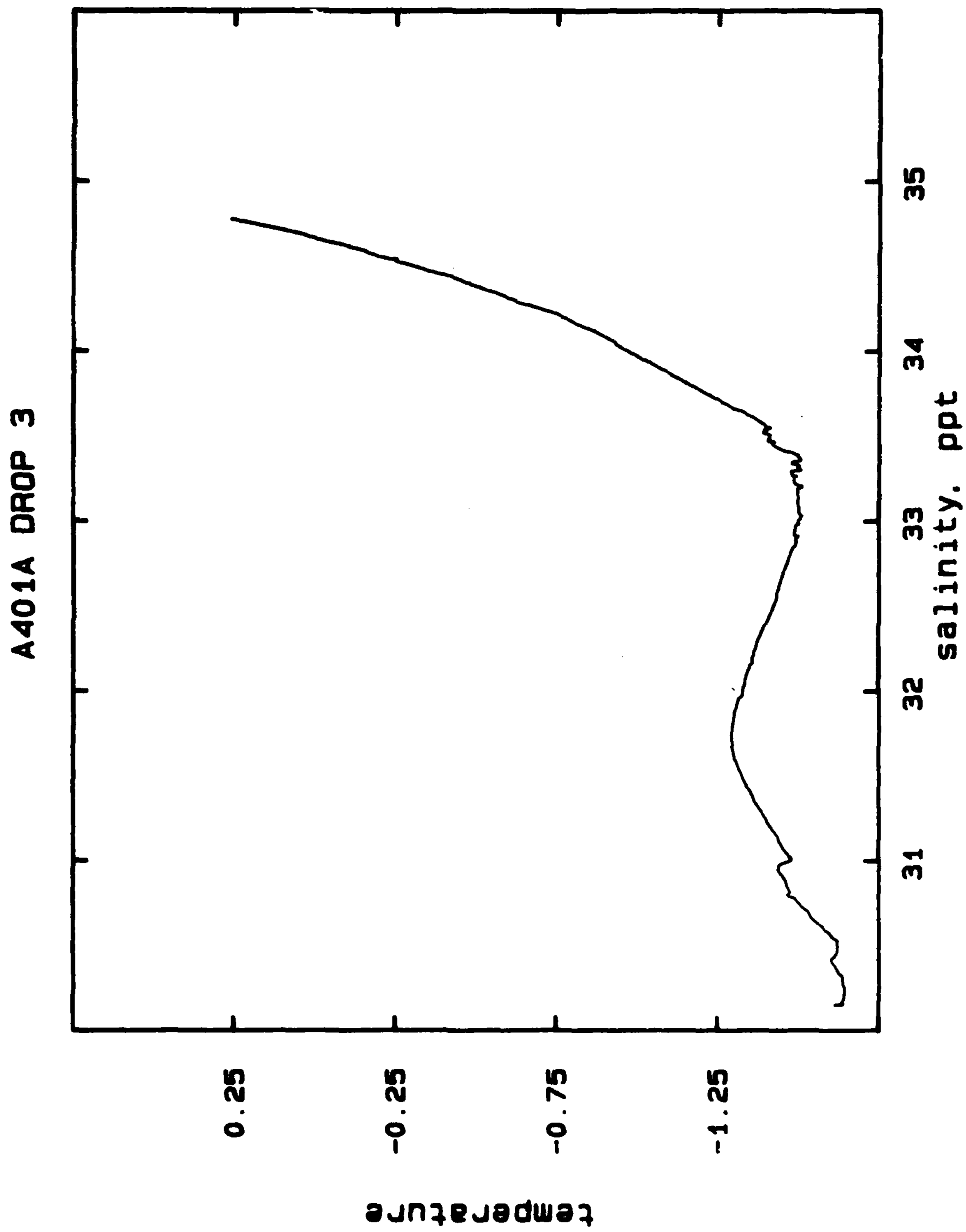

A328A DROP 2
0.25
-0.25
-0.75
-1.25
temperature
31
32
33
34
35
salinity, ppt

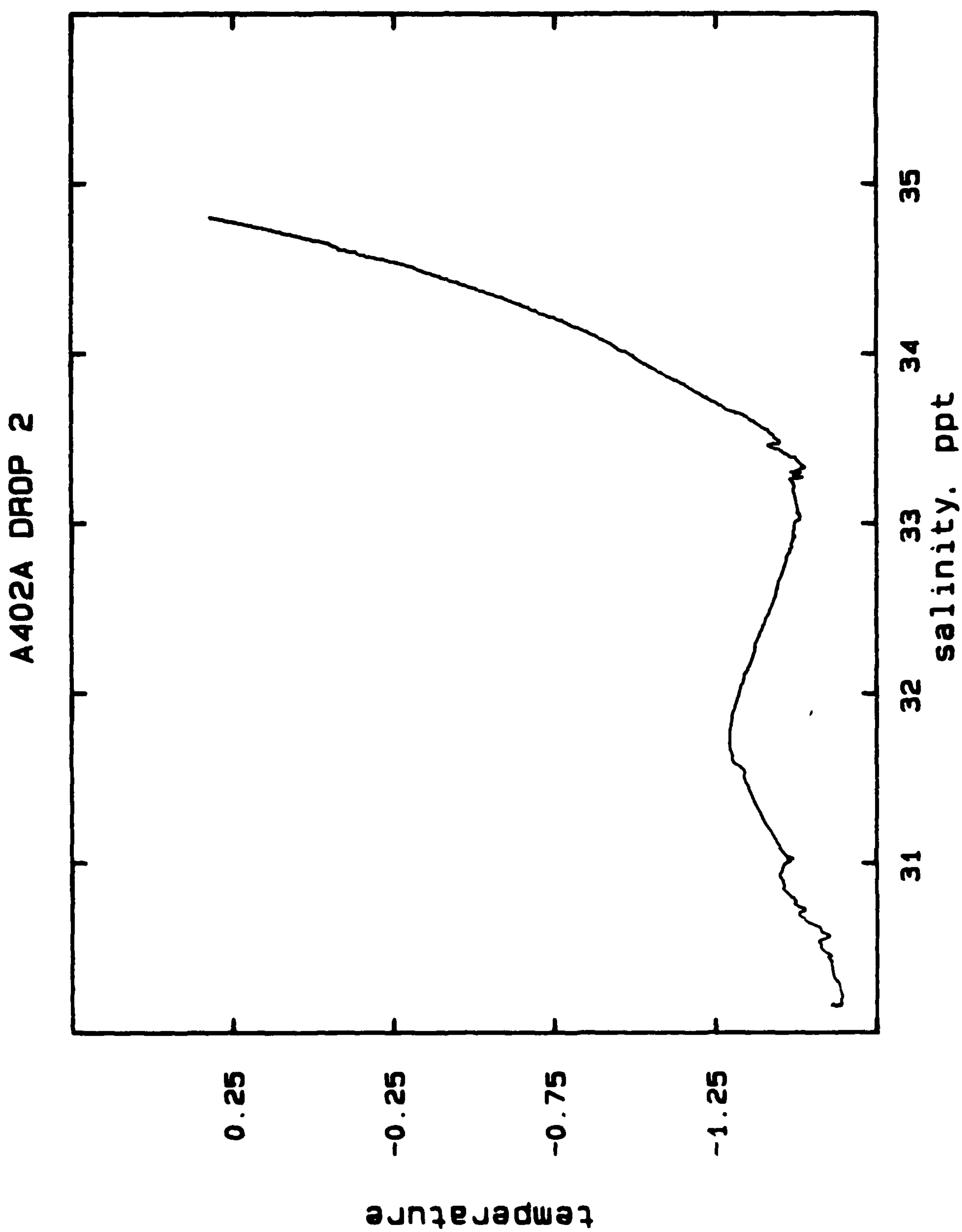


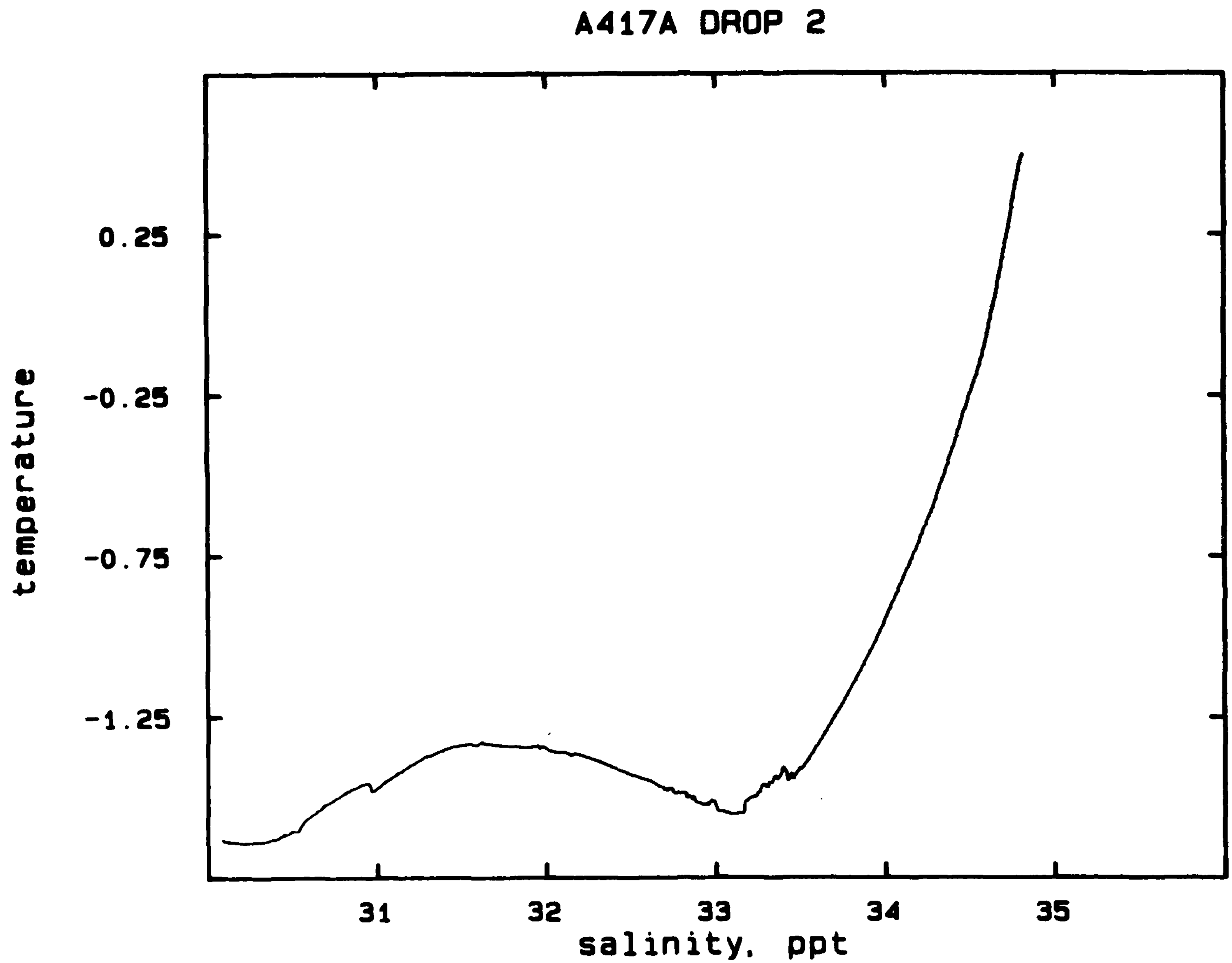
A329C DROP 1
temperature
0.25
-0.25
-0.75
-1.25
salinity, ppt
31
32
33
34
35

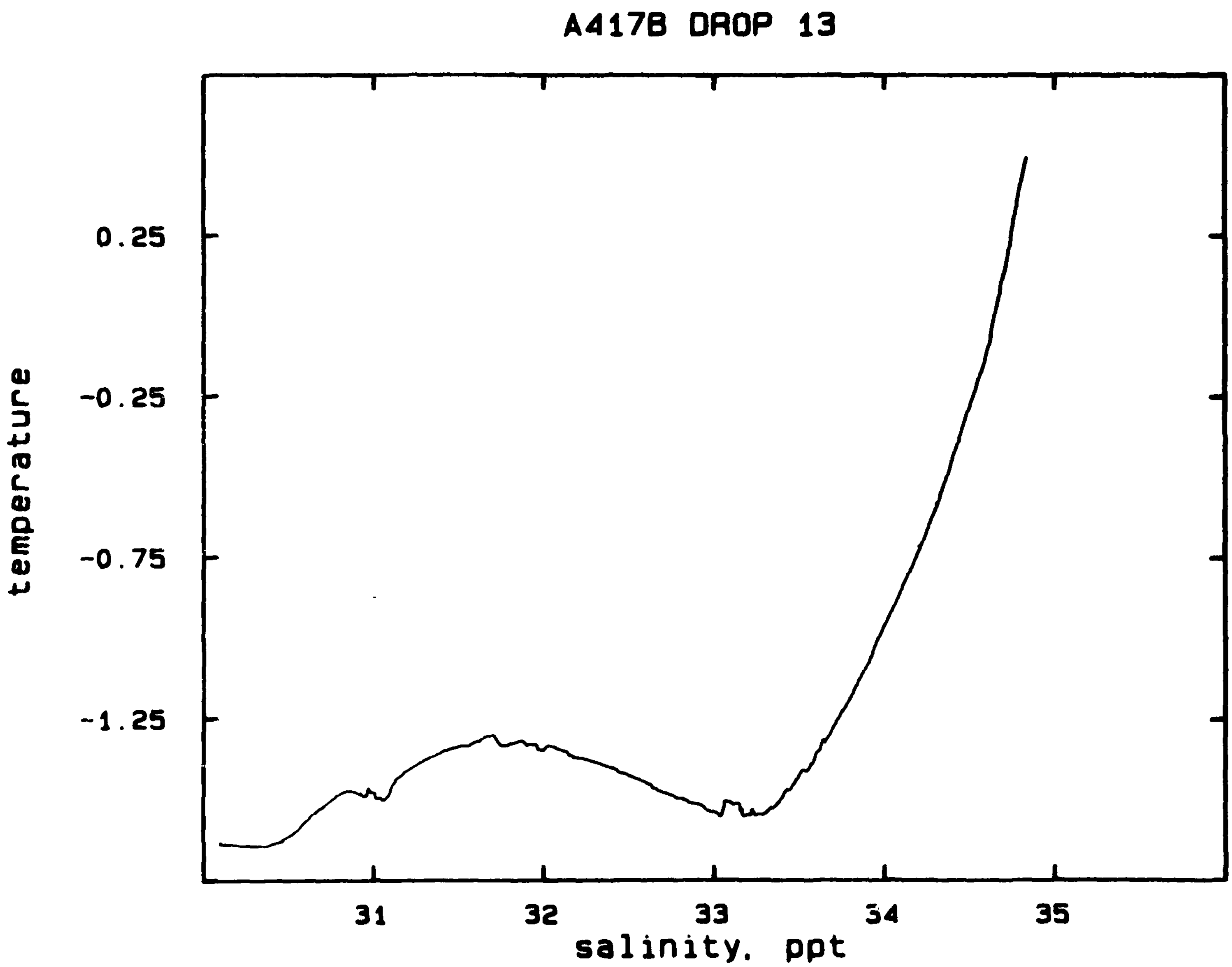

A330C DROP 2
temperature
0.25
-0.25
-0.75
-1.25
salinity, ppt
31
32
33
34
35


A323A DROP 6
temperature
0.25
-0.25
-0.75
-1.25
31
32
33
34
35
salinity, ppt


A401A DROP 3
temperature
0.25
-0.25
-0.75
-1.25
31
32
33
34
35
salinity, ppt

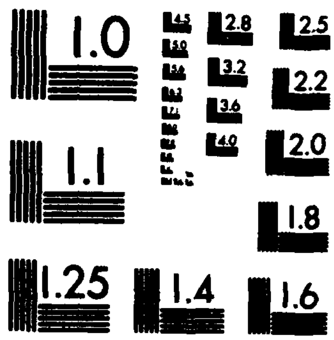

A402A DROP 2
0.25
-0.25
-0.75
-1.25
temperature
31
32
33
34
35
salinity, ppt


A417A DROP 2
0.25
-0.25
-0.75
-1.25
temperature
31
32
33
34
35
salinity, ppt


A417B DROP 13
temperature
0.25
-0.25
-0.75
-1.25
31
32
33
34
35
salinity, ppt

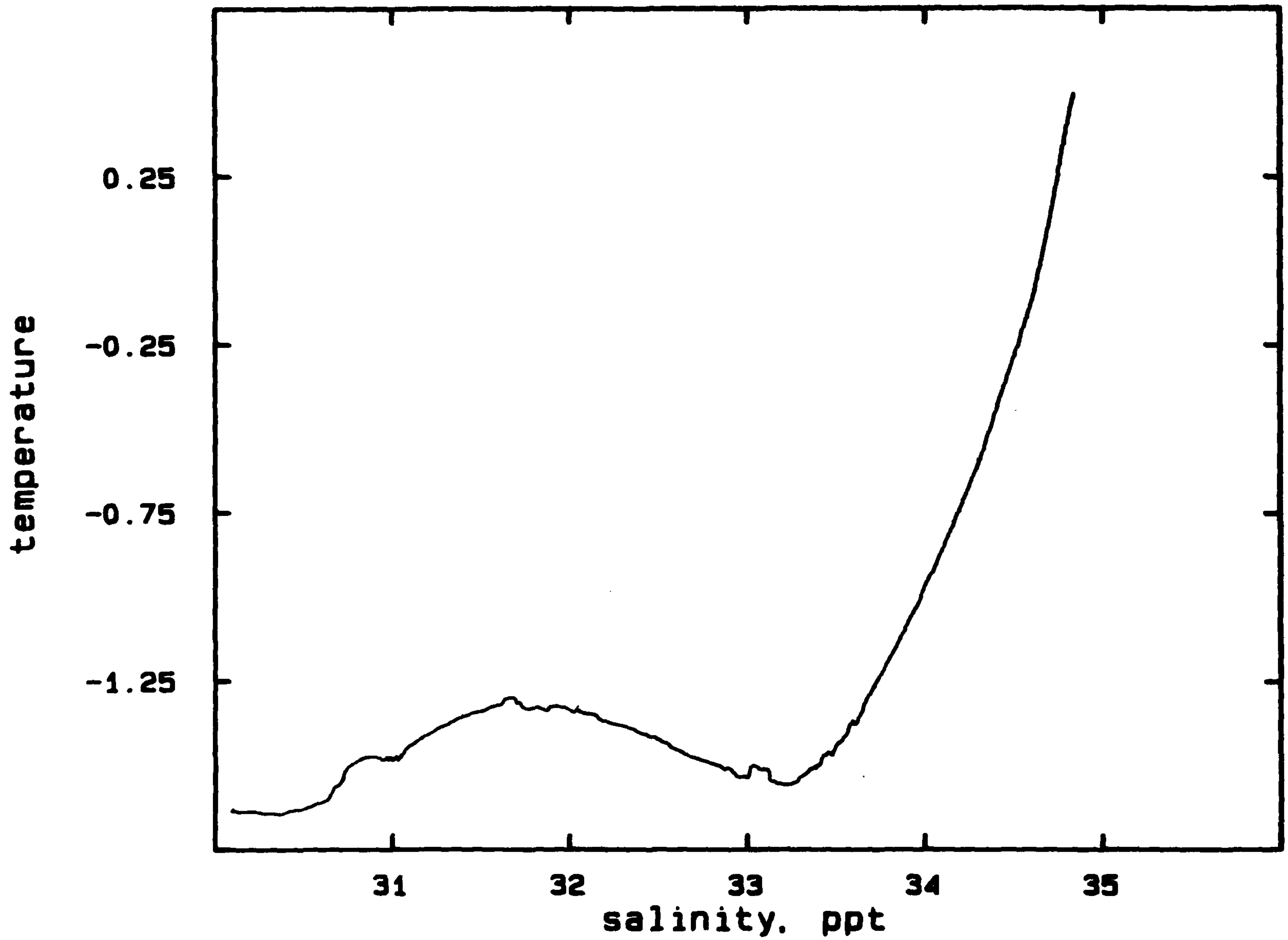
AD-A181 764 MICROSTRUCTURE CASTS DURING AIWEX (ARCTIC INTERNAL WAVE EXPERIMENT) A SUMMARY(U) OREGON STATE UNIV CORVALLIS COLL OF OCEANOGRAPHY T M DILLON ET AL. APR 85 DATA-122 2/5

UNCLASSIFIED N00014-84-C-0218 F/G 8/3 NL

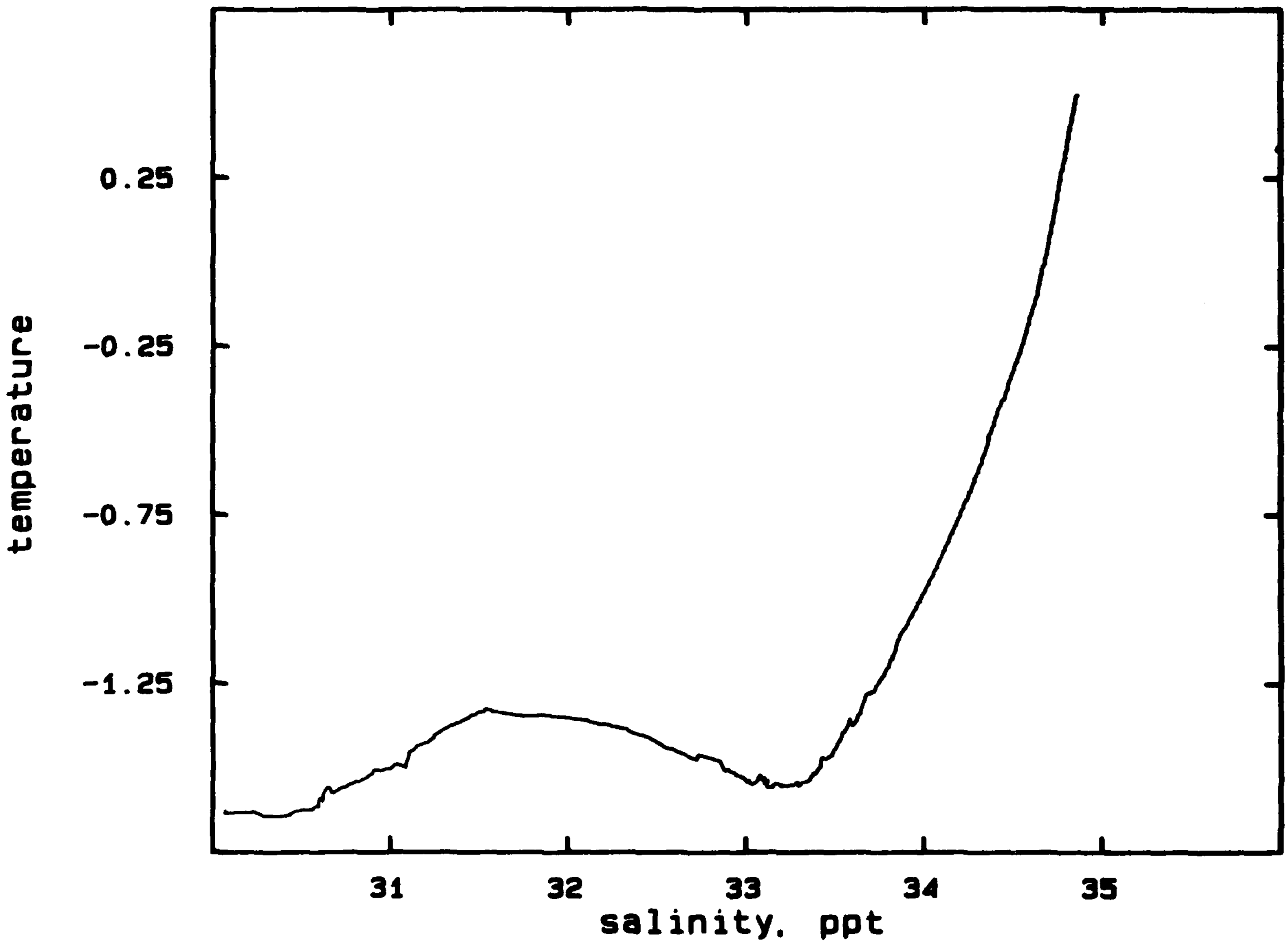


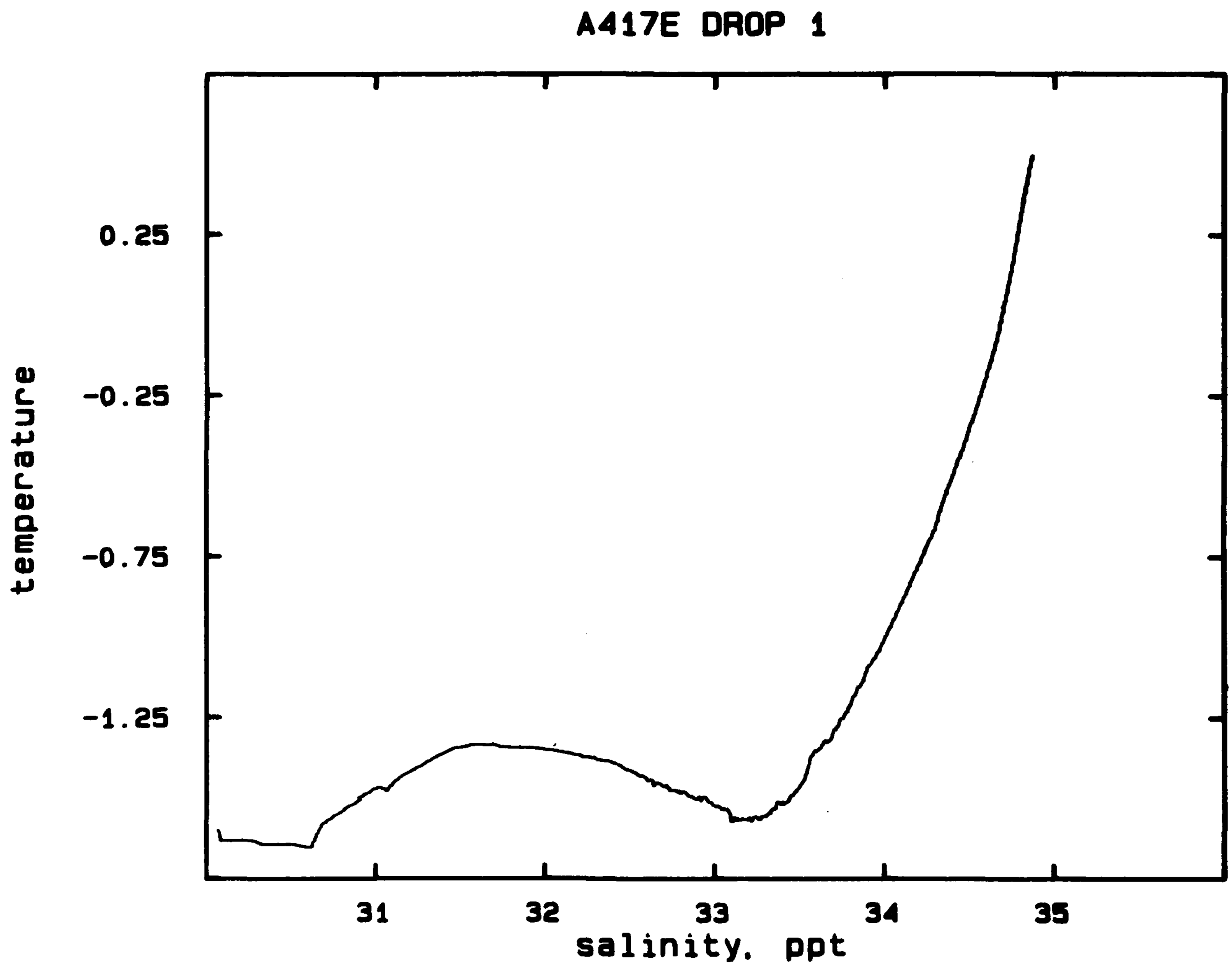
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

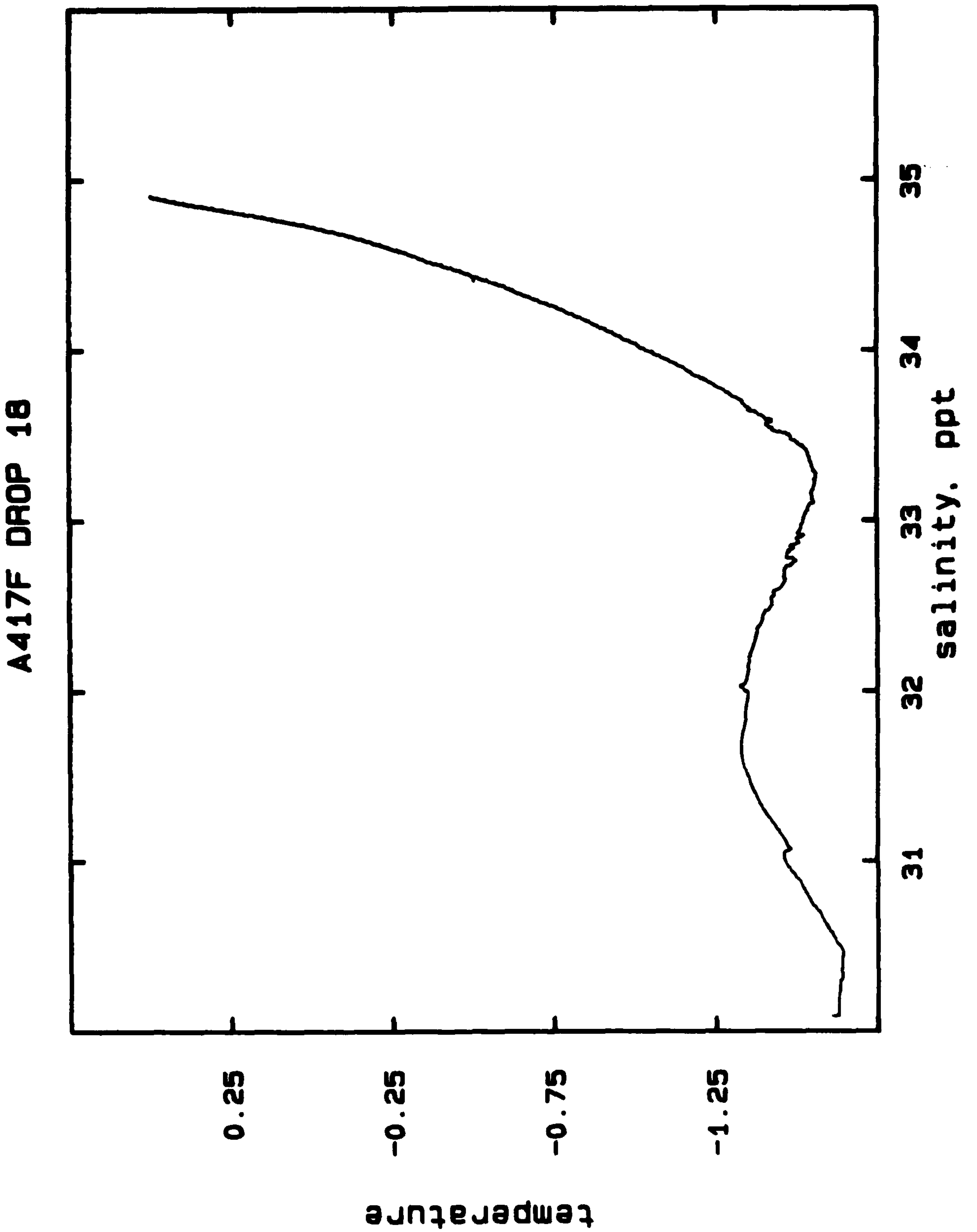
A417C DROP 1

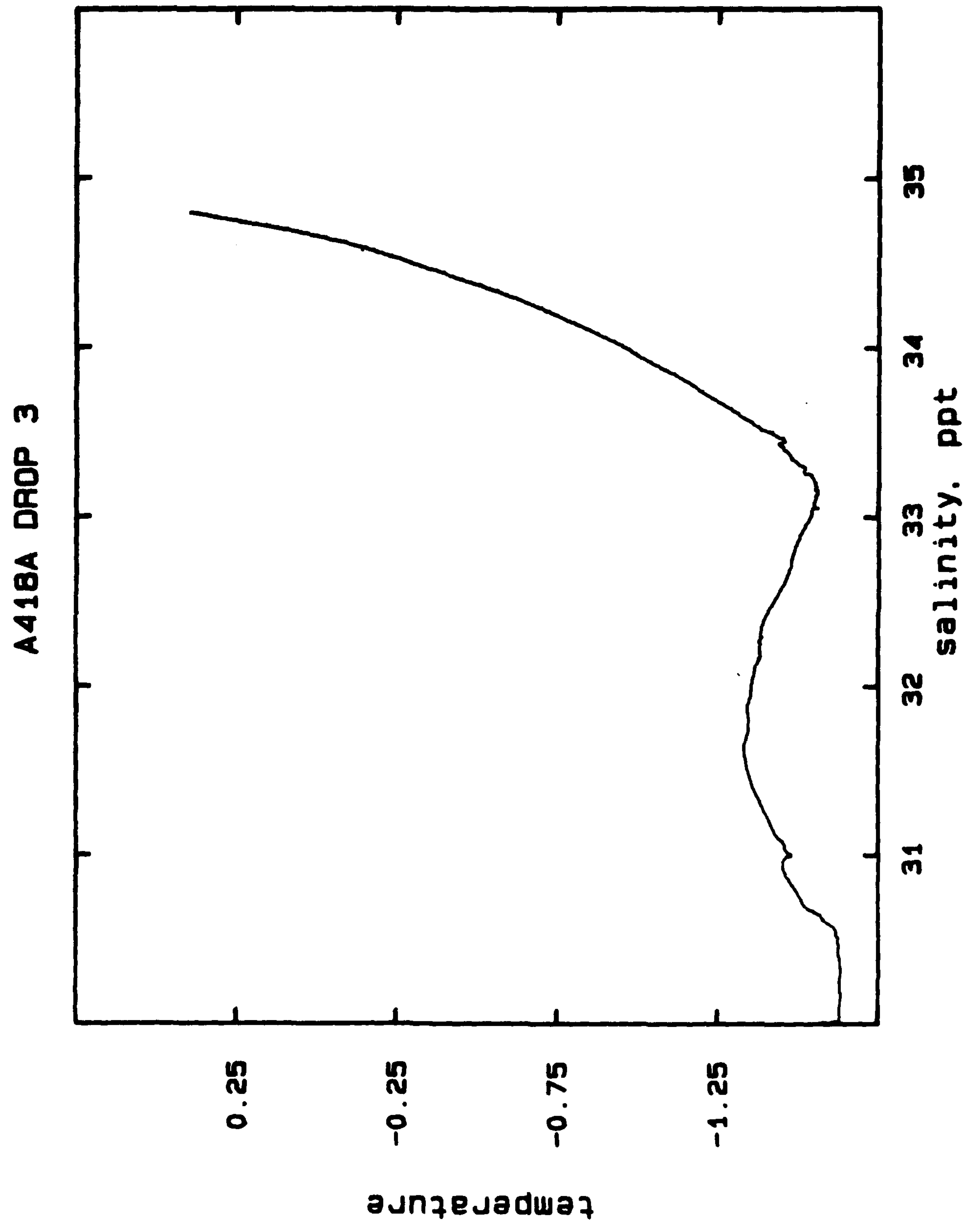


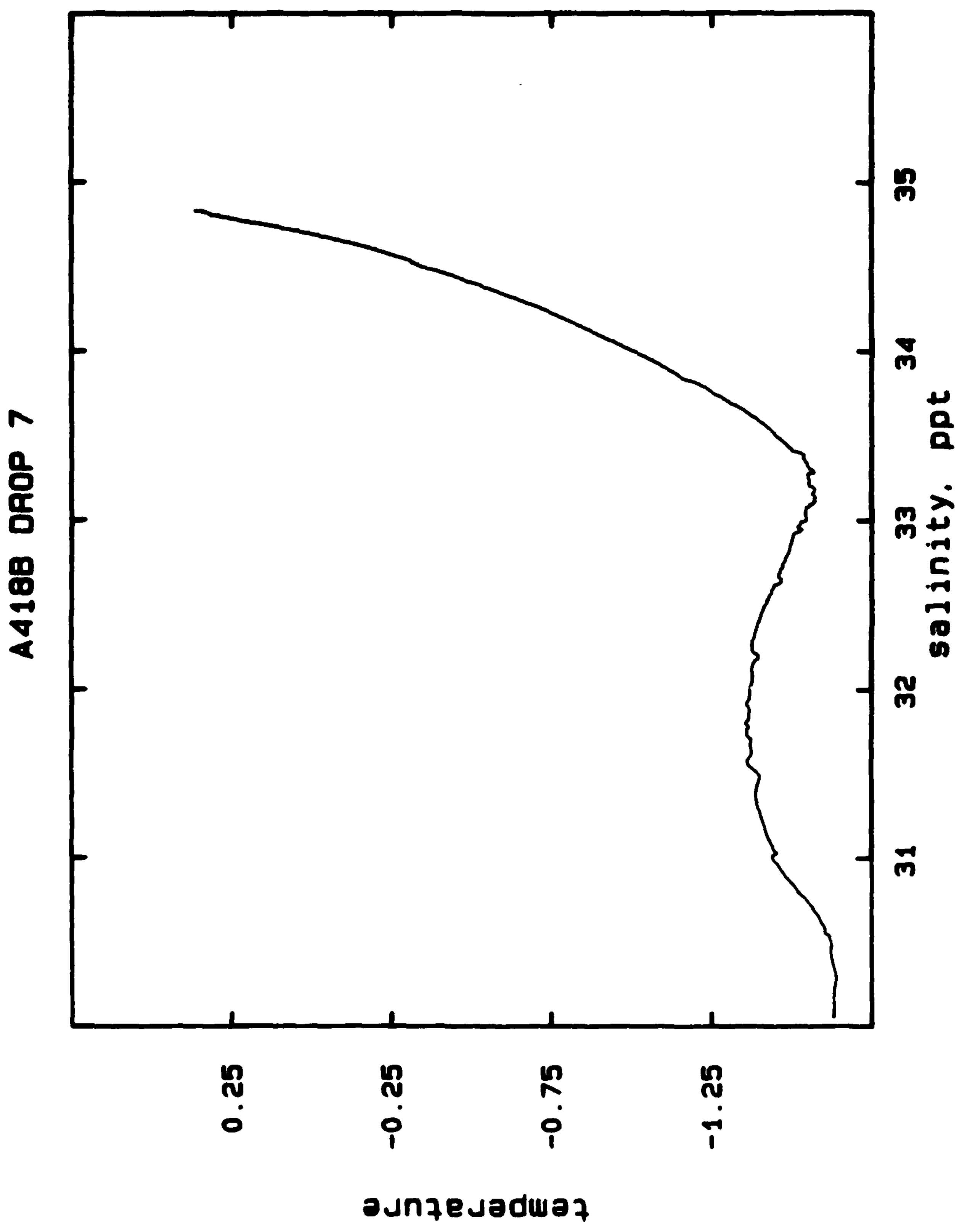
A417D DROP 1

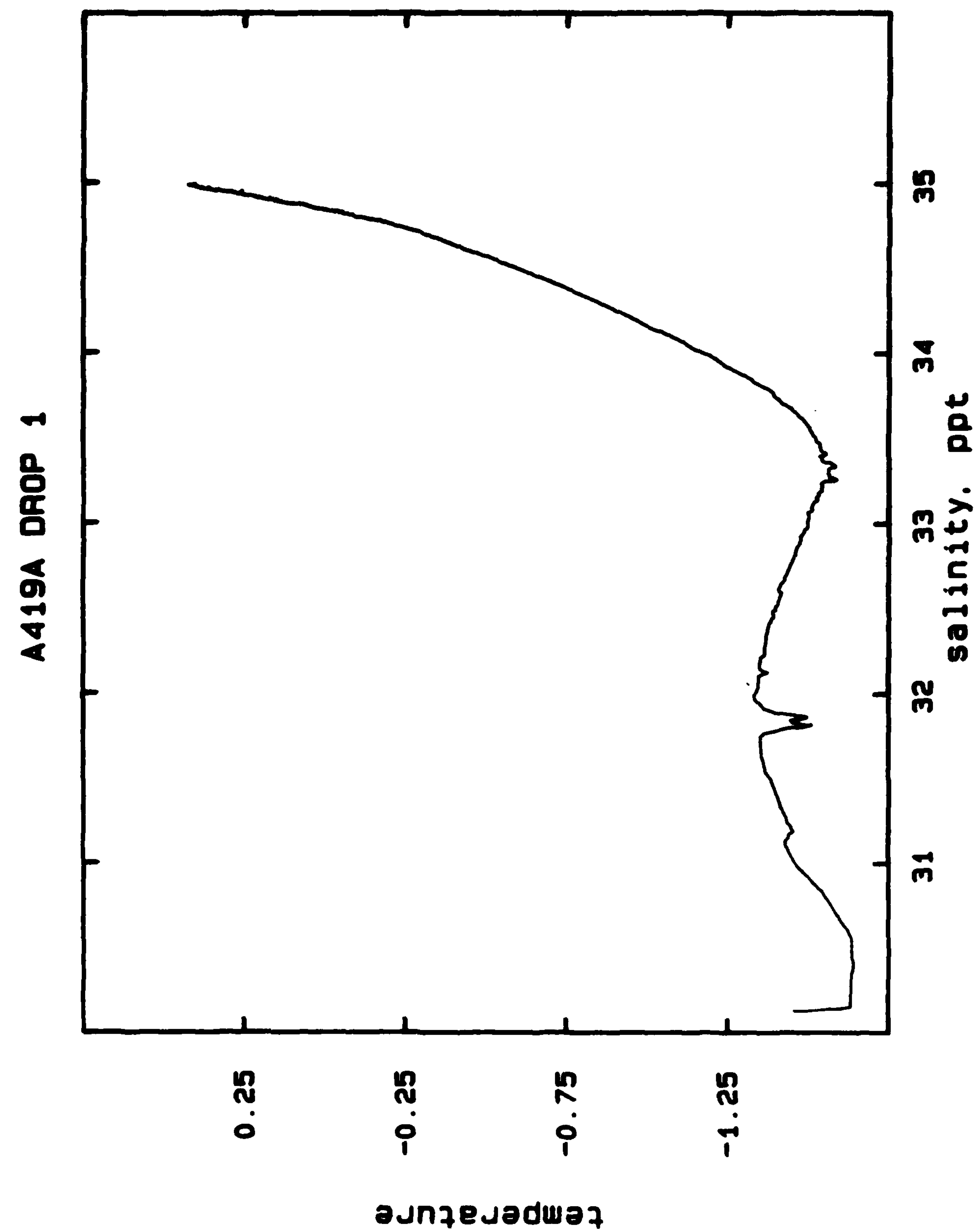


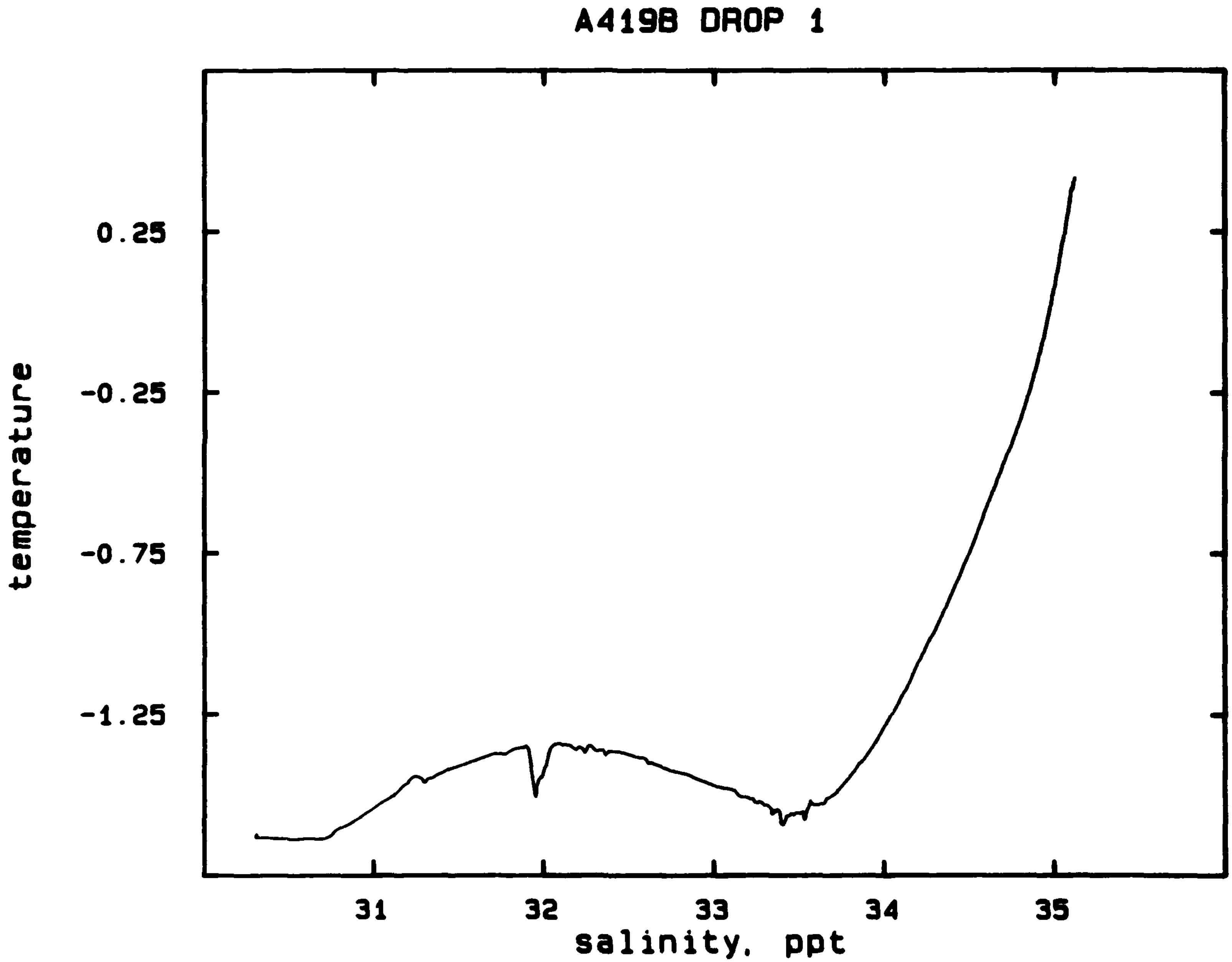

A417E DROP 1
0.25
-0.25
-0.75
-1.25
temperature
31
32
33
34
35
salinity, ppt

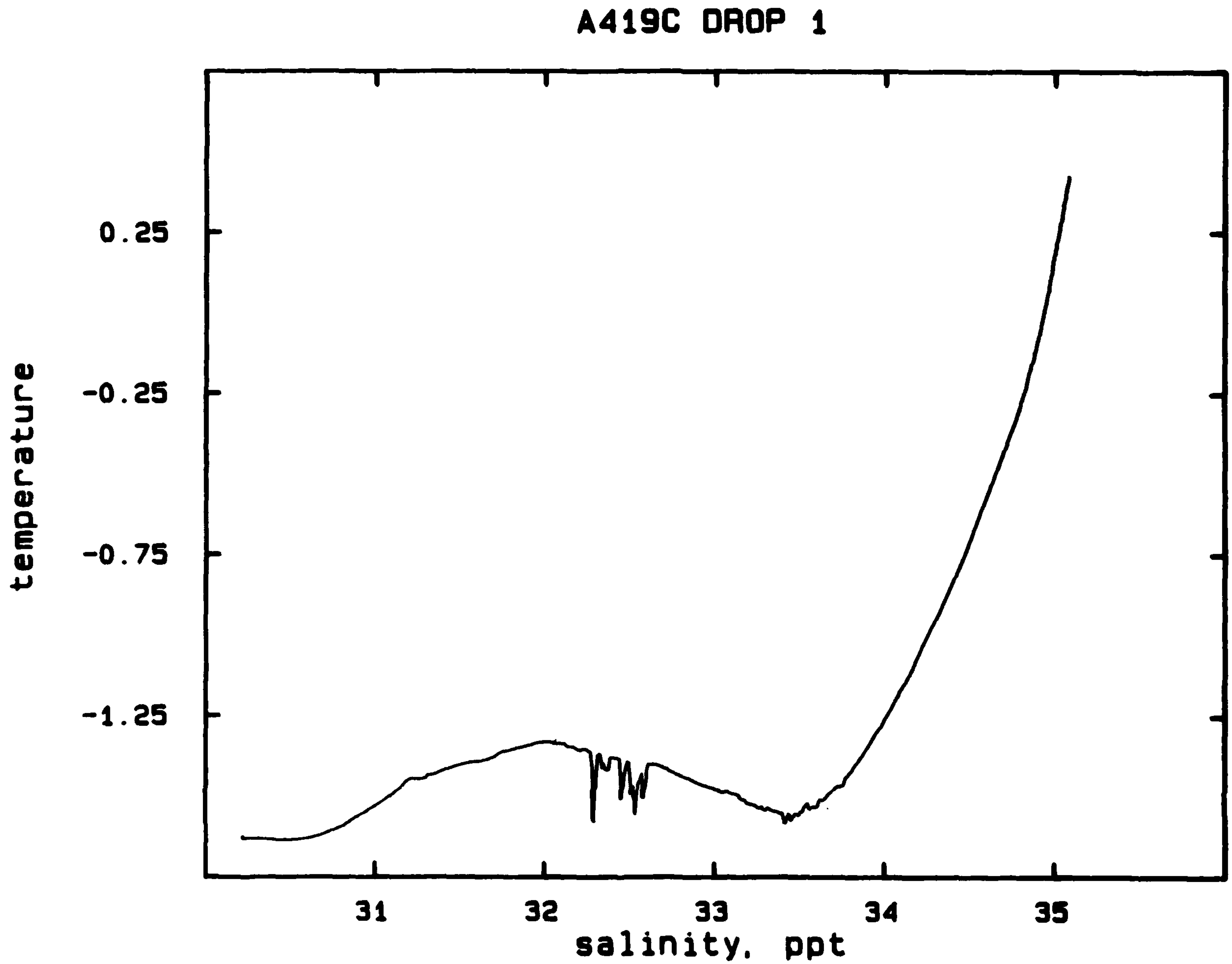

A417F DROP 18
temperature
0.25
-0.25
-0.75
-1.25
salinity, ppt
31
32
33
34
35

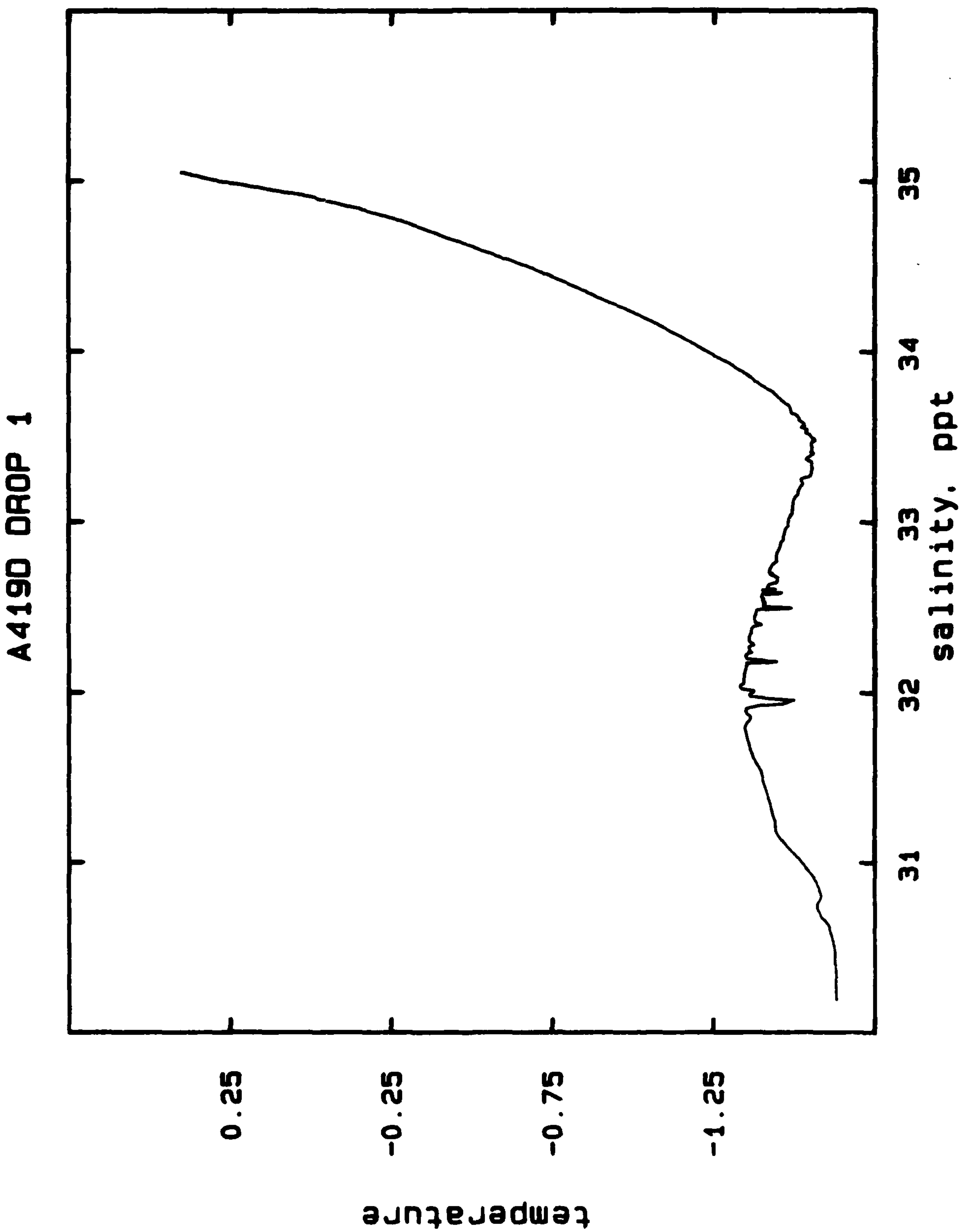

A41BA DROP 3
temperature
0.25
-0.25
-0.75
-1.25
salinity, ppt
31
32
33
34
35


A418B DROP 7
salinity, ppt
temperature
0.25
-0.25
-0.75
-1.25
31
32
33
34
35

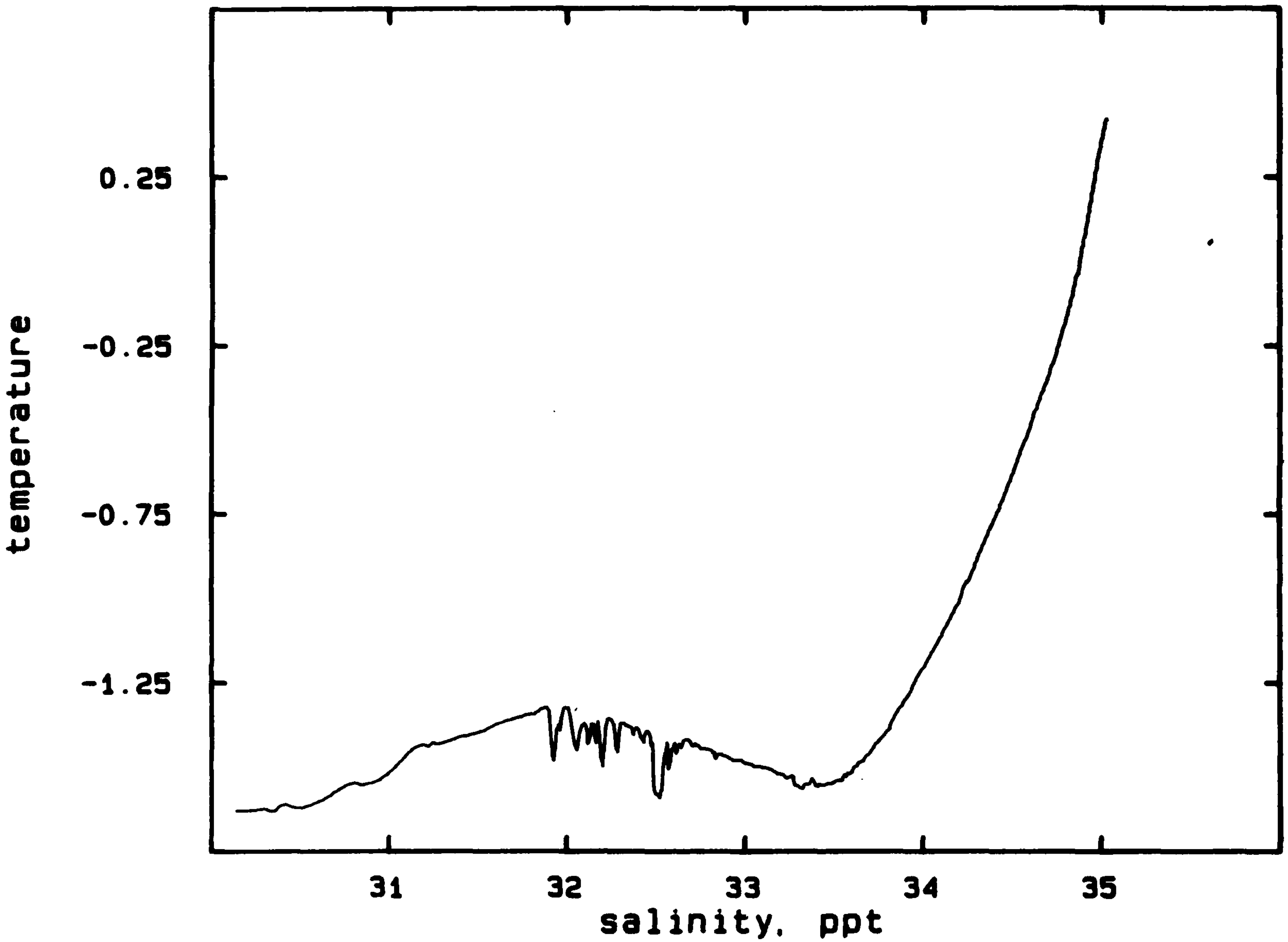

A419A DROP 1
salinity, ppt
temperature
31
32
33
34
35
0.25
-0.25
-0.75
-1.25

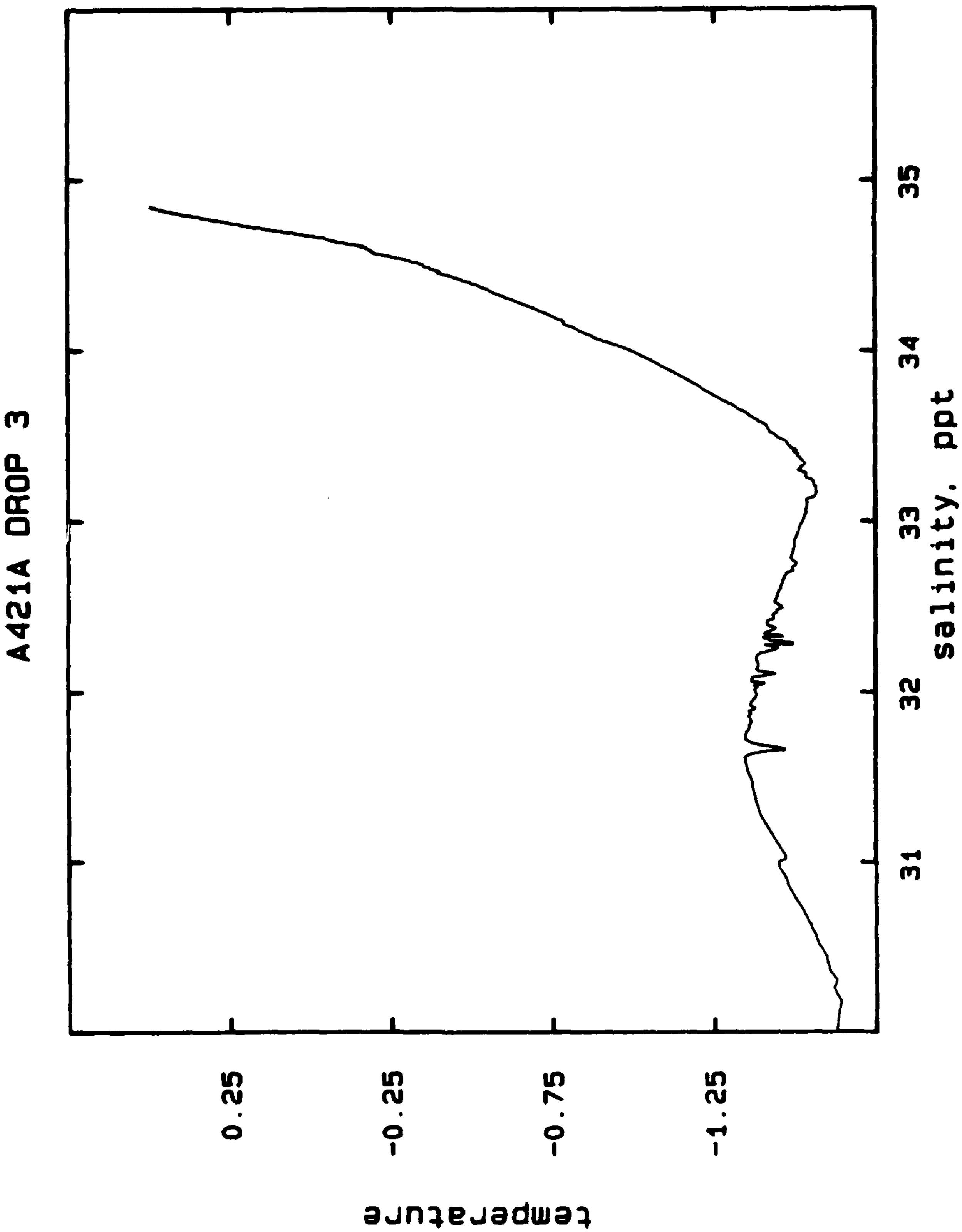

A419B DROP 1
temperature
0.25
-0.25
-0.75
-1.25
31
32
33
34
35
salinity, ppt

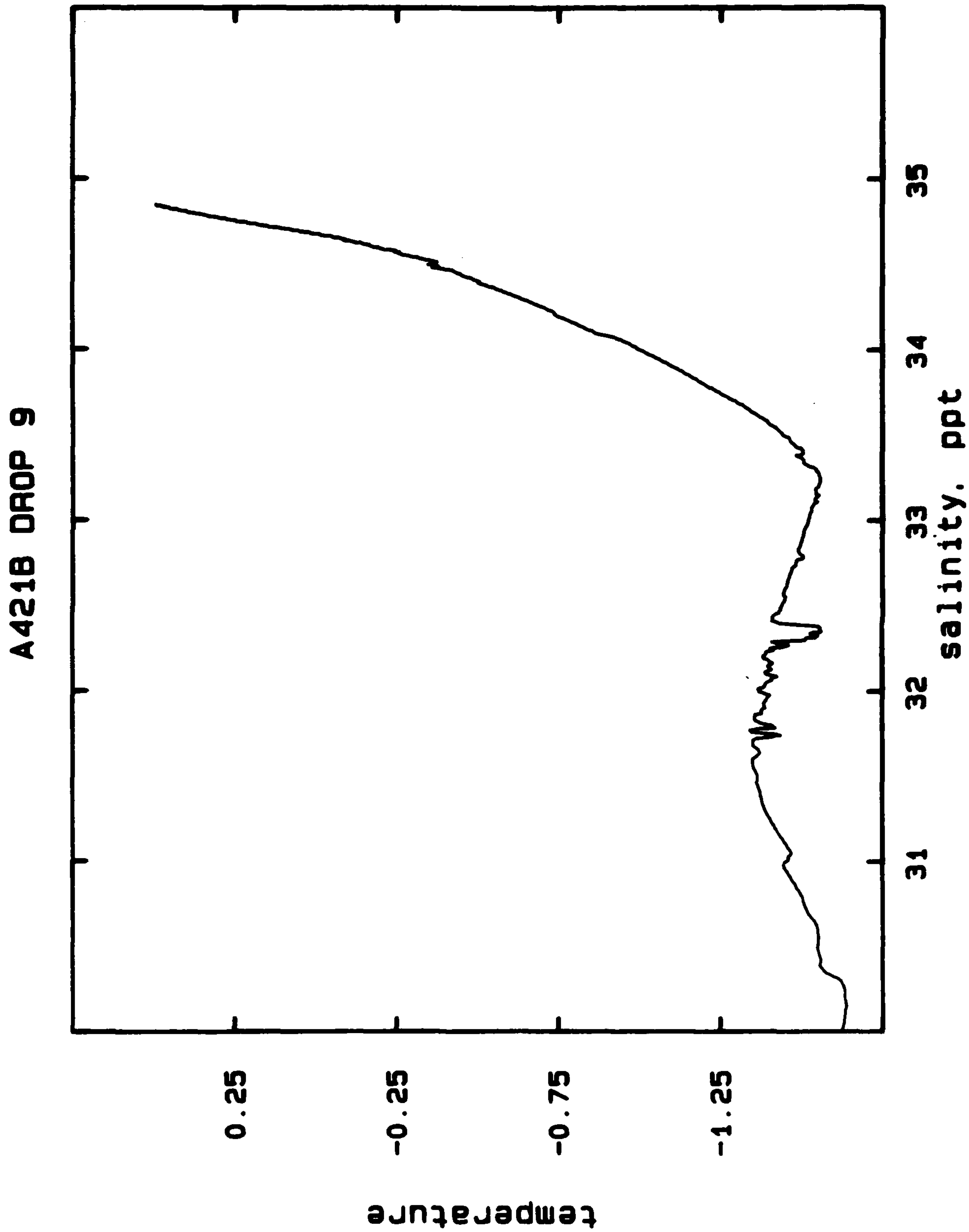

A419C DROP 1
temperature
0.25
-0.25
-0.75
-1.25
31
32
33
34
35
salinity, ppt

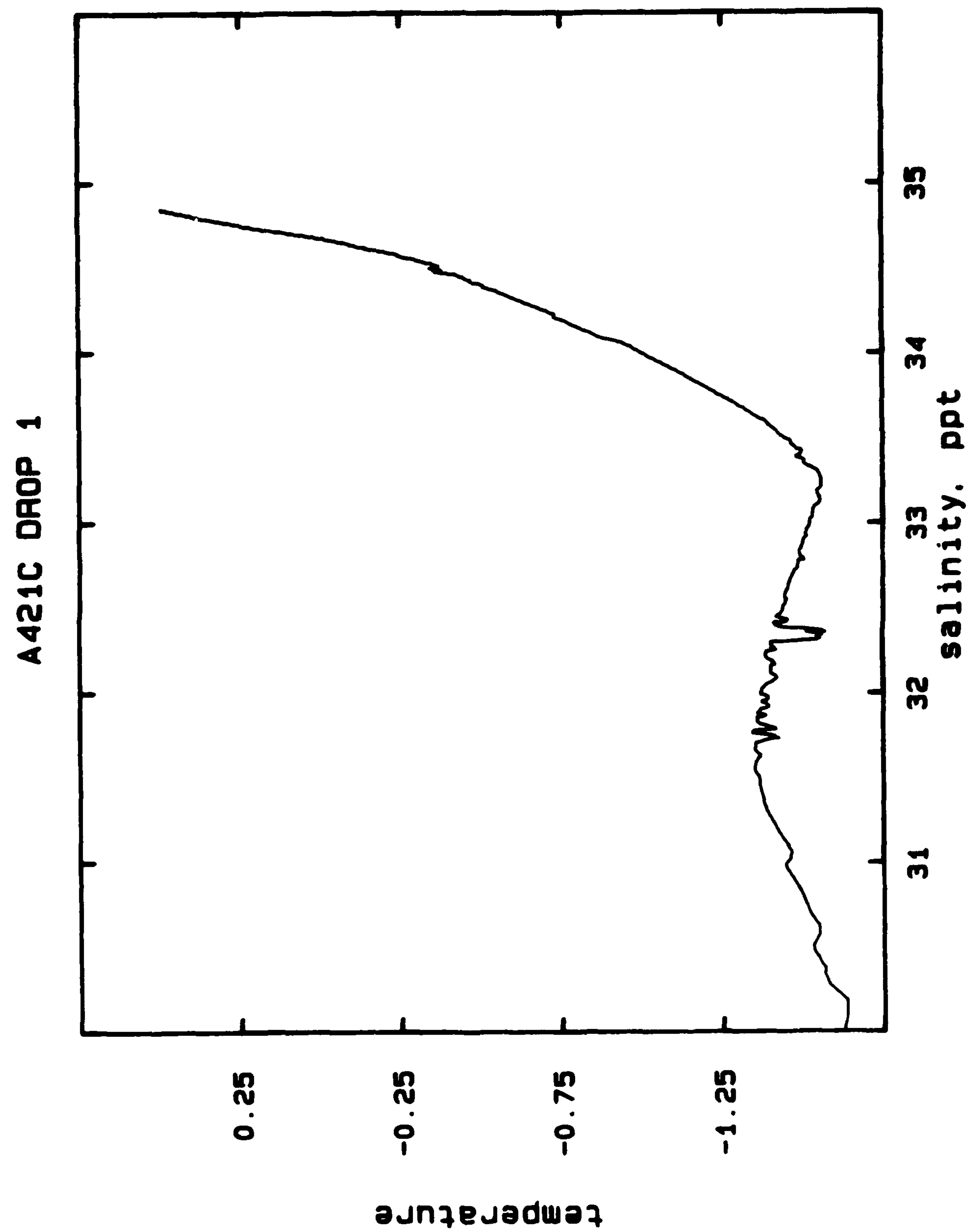

A419D DROP 1
temperature
0.25
-0.25
-0.75
-1.25
31
32
33
34
35
salinity, ppt

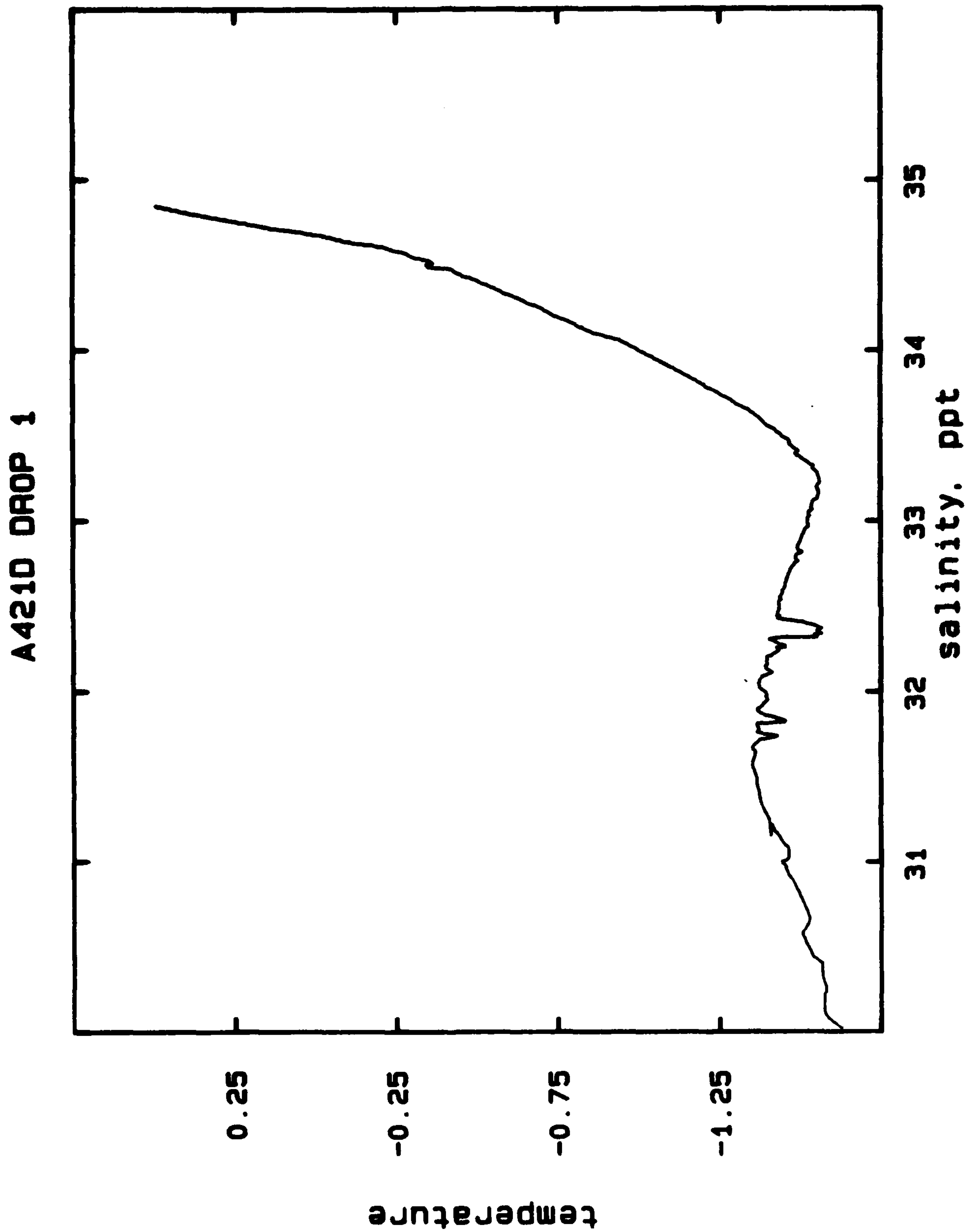
A419E DROP 1

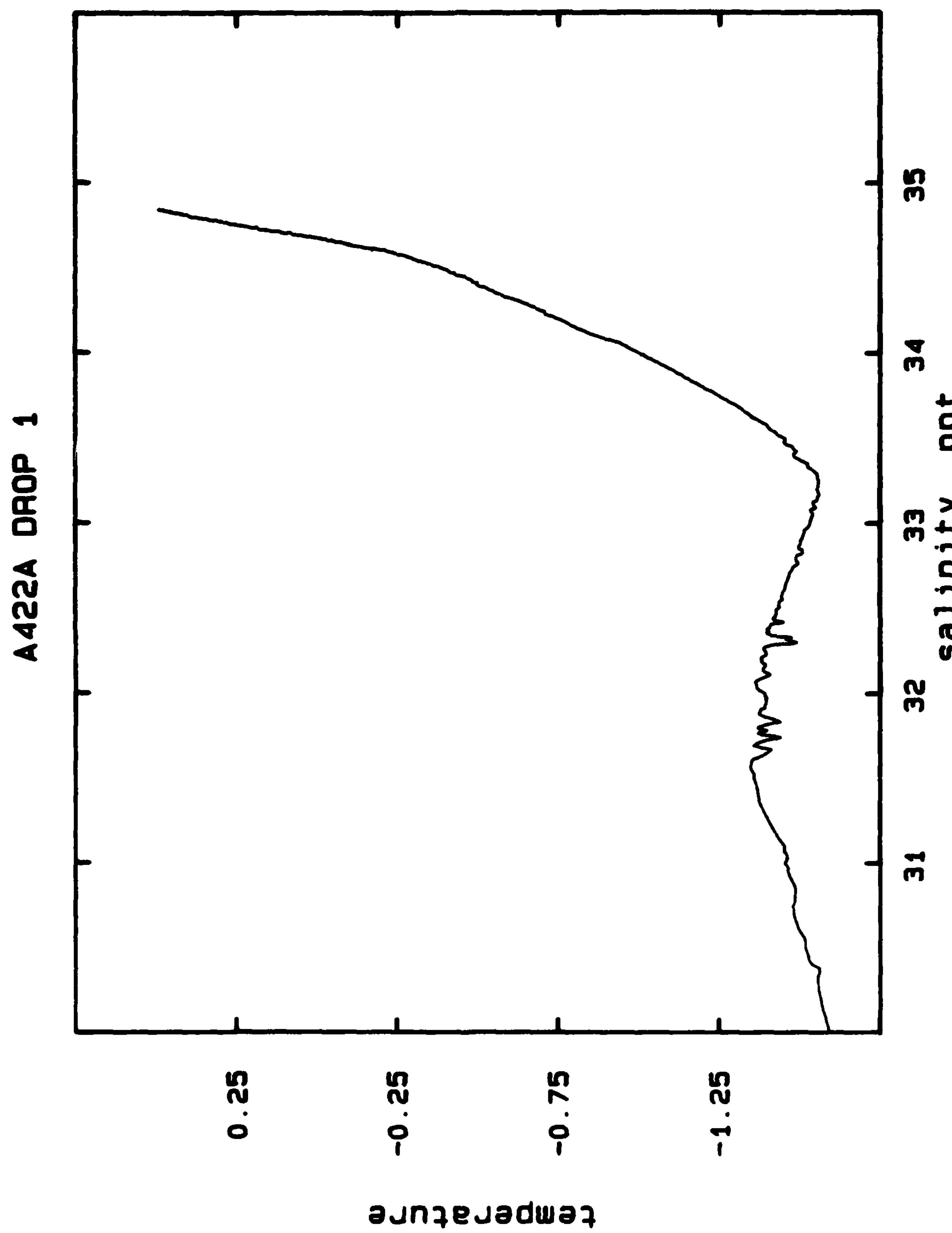


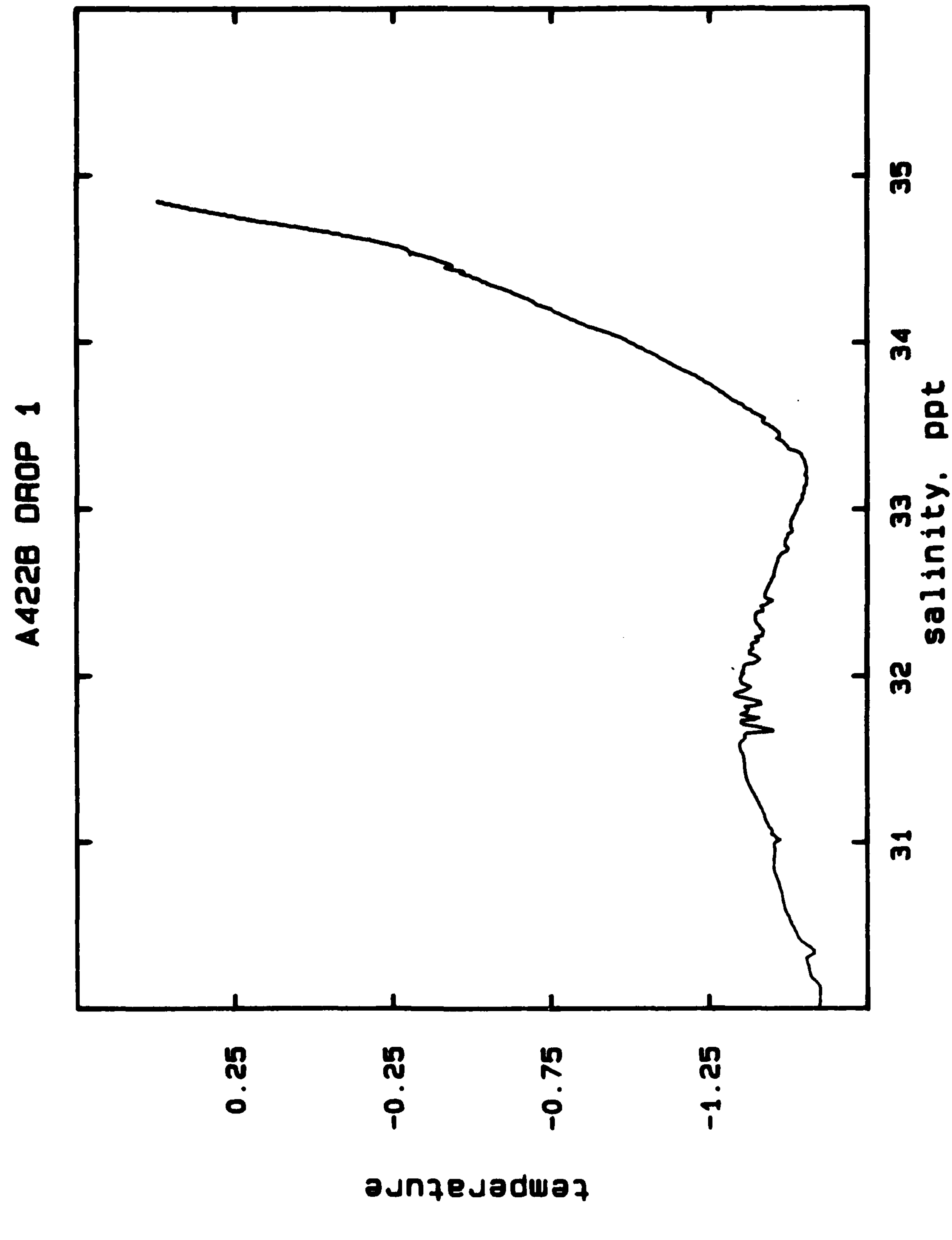

A421A DROP 3
temperature
0.25
-0.25
-0.75
-1.25
salinity, ppt
31
32
33
34
35

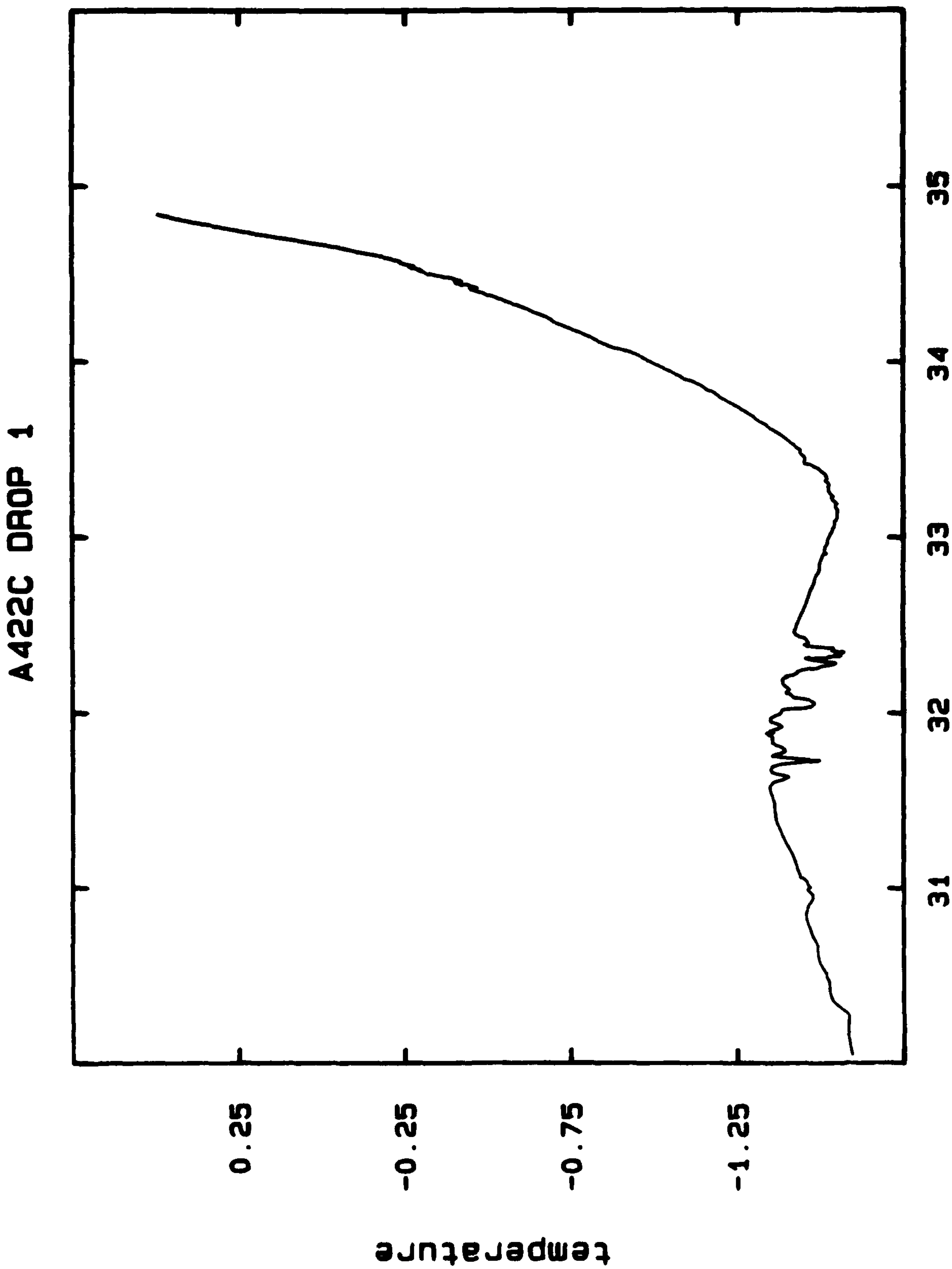

A421B DROP 9
temperature
0.25
-0.25
-0.75
-1.25
salinity, ppt
31
32
33
34
35

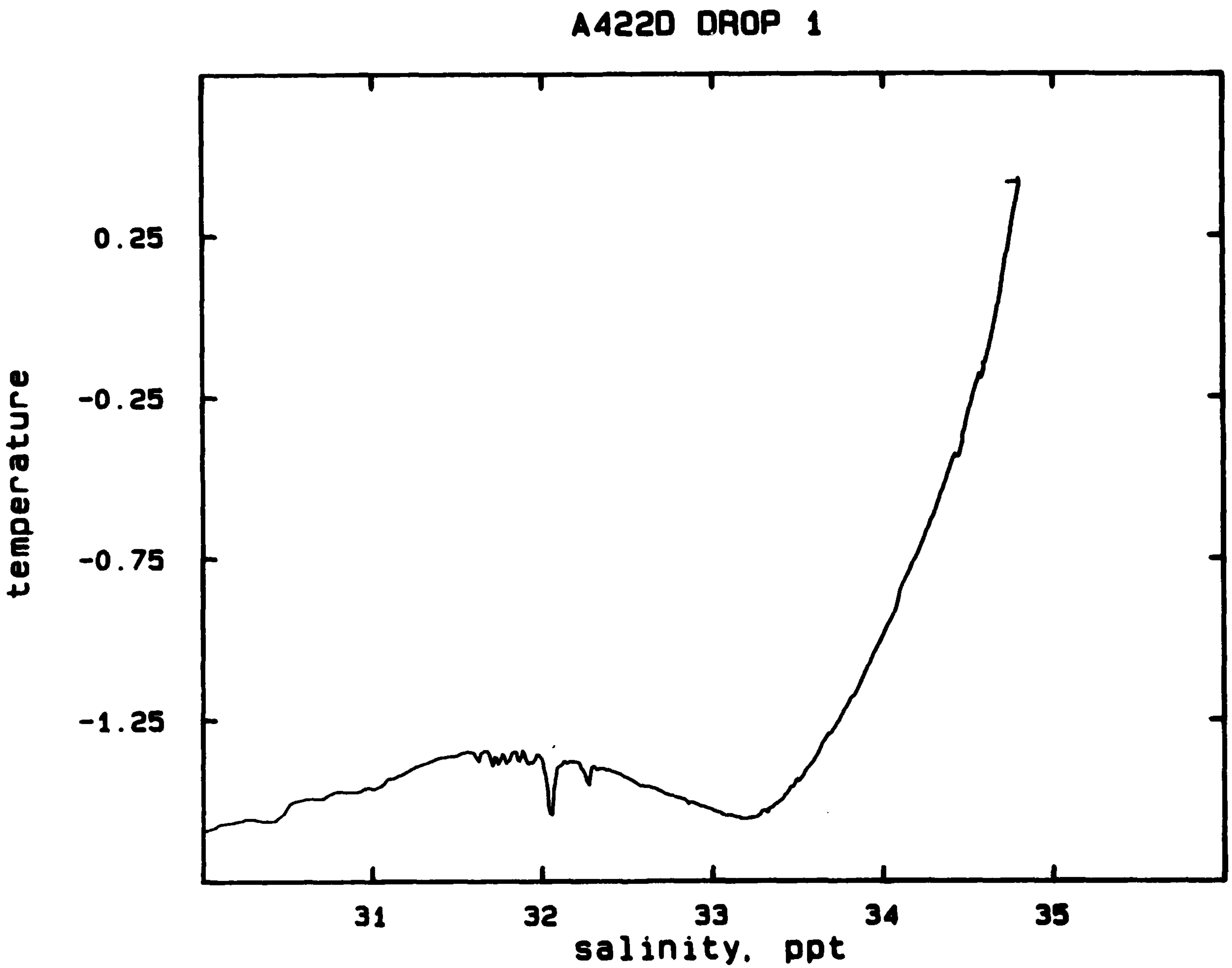

A421C DROP 1
temperature
0.25
-0.25
-0.75
-1.25
salinity, ppt
31
32
33
34
35

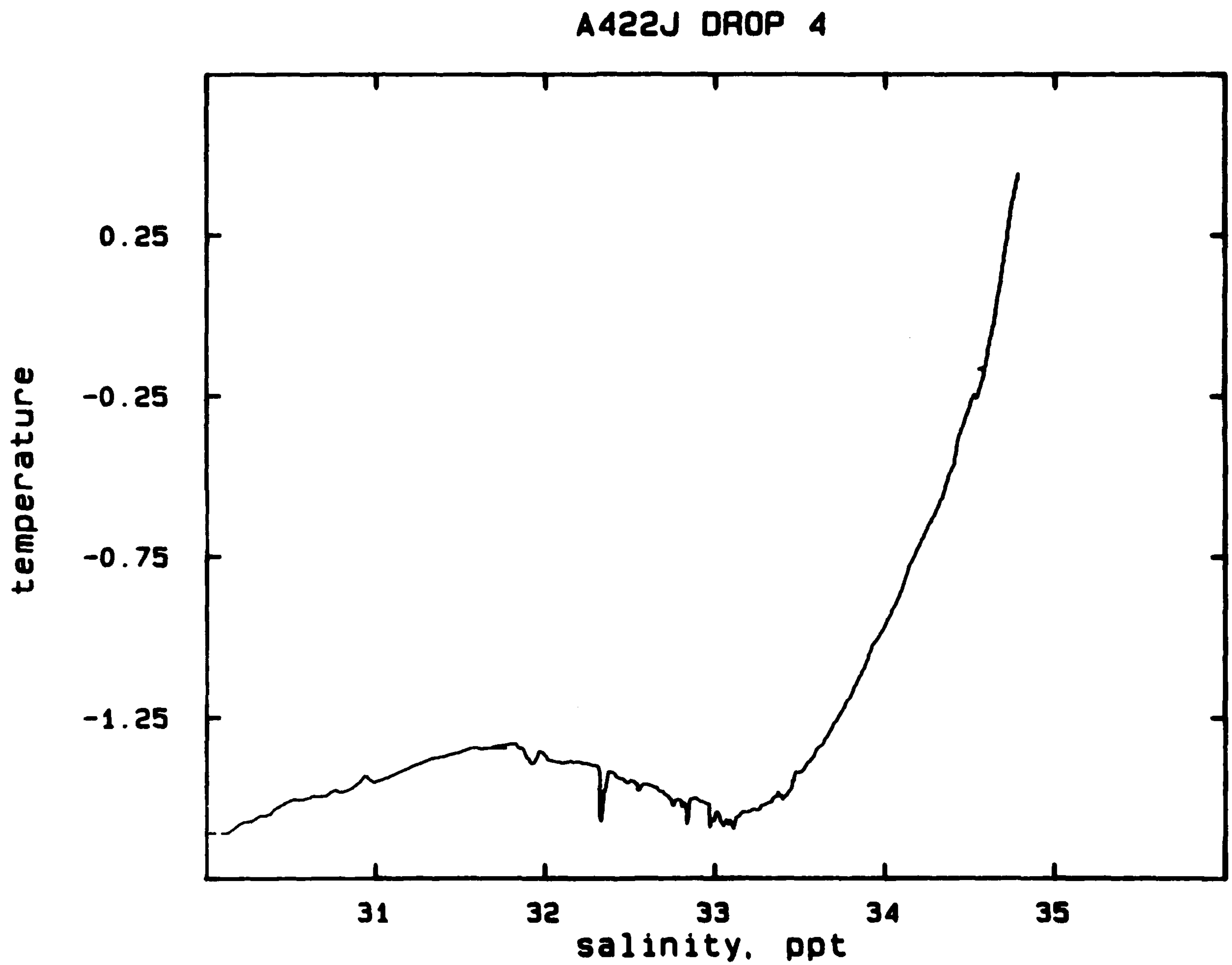

A421D DROP 1
temperature
0.25
-0.25
-0.75
-1.25
31
32
33
34
35
salinity, ppt

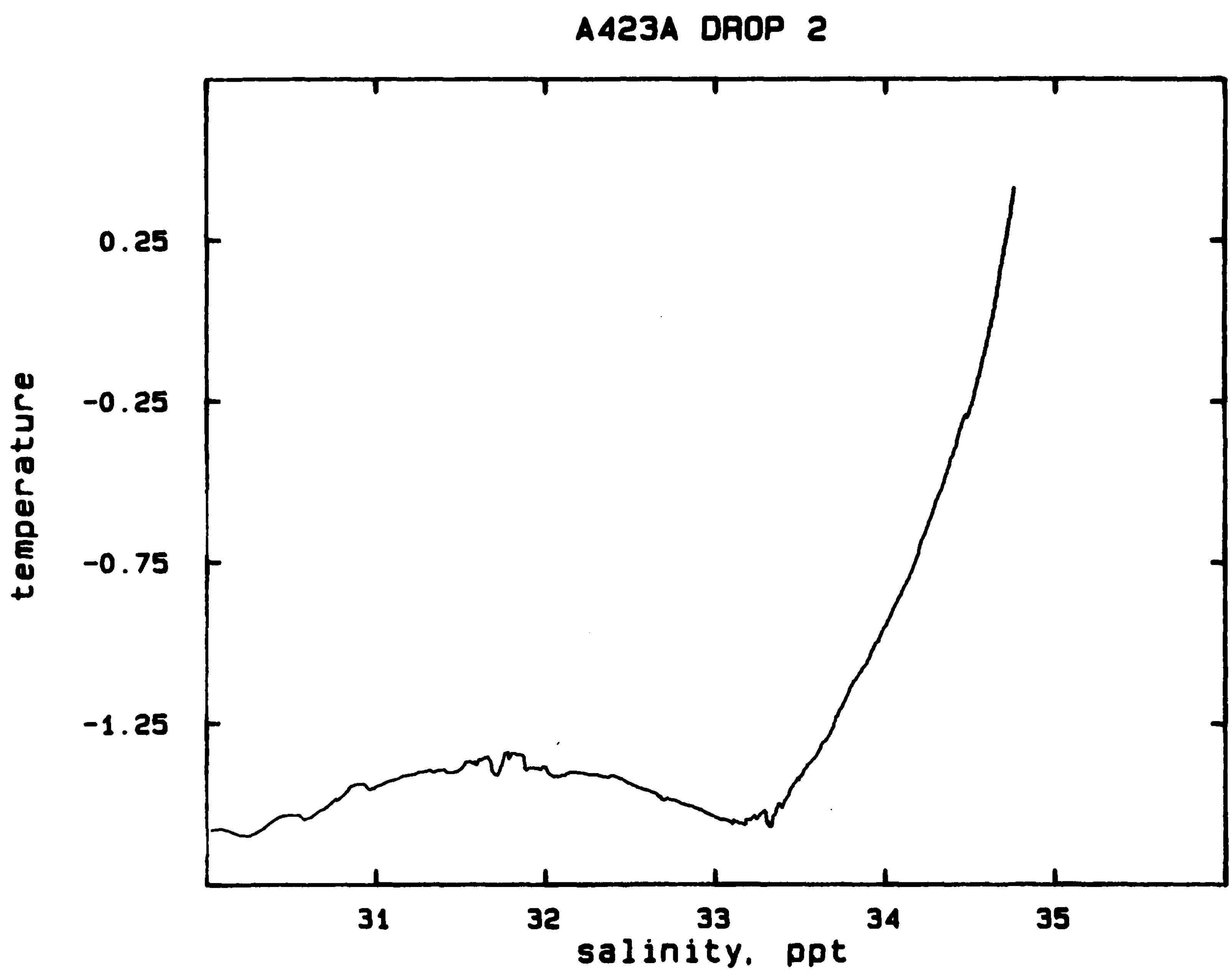

A422A DROP 1
temperature
0.25
-0.25
-0.75
-1.25
31
32
33
34
35
salinity, ppt

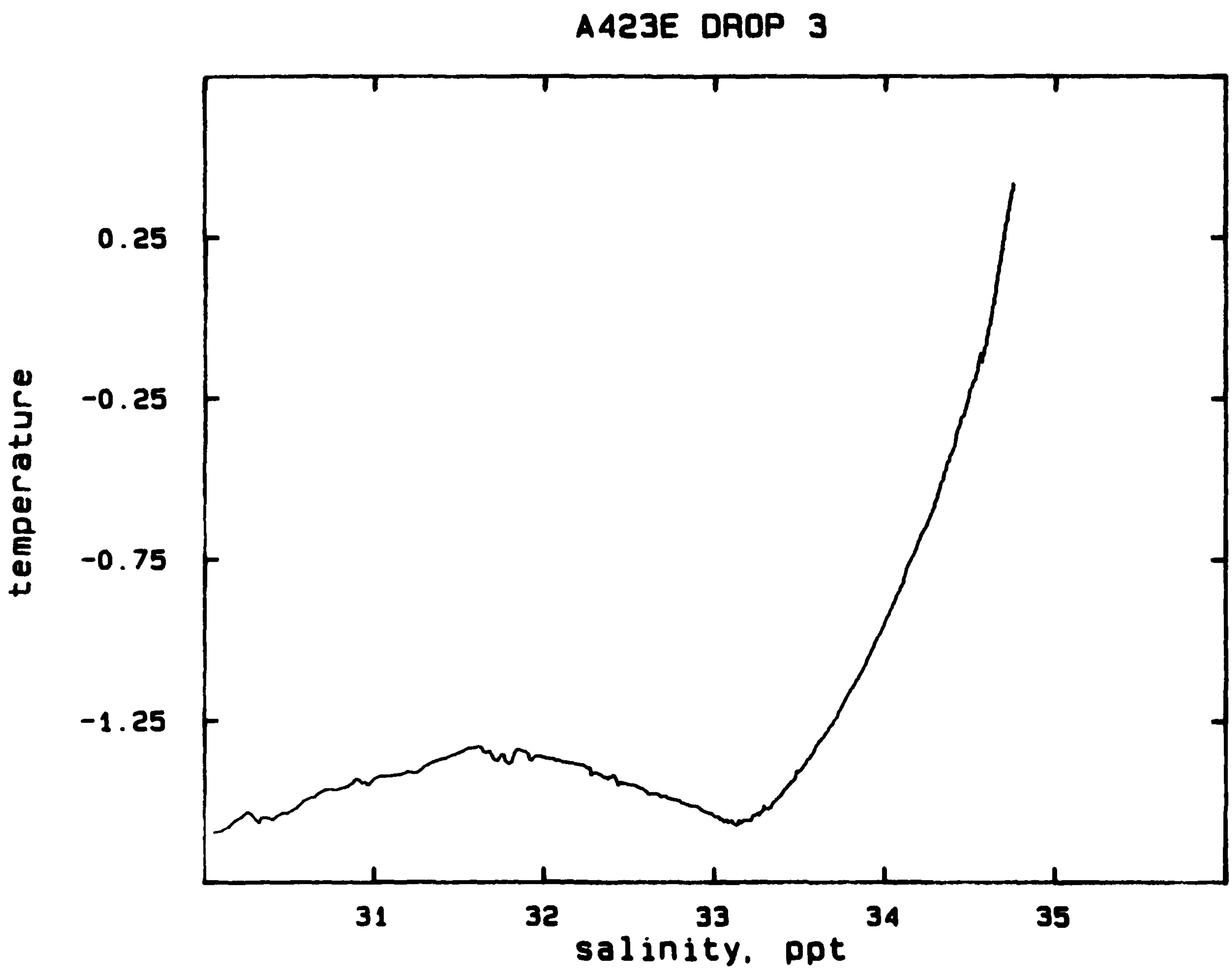

A422B DROP 1
temperature
0.25
-0.25
-0.75
-1.25
salinity, ppt
31
32
33
34
35

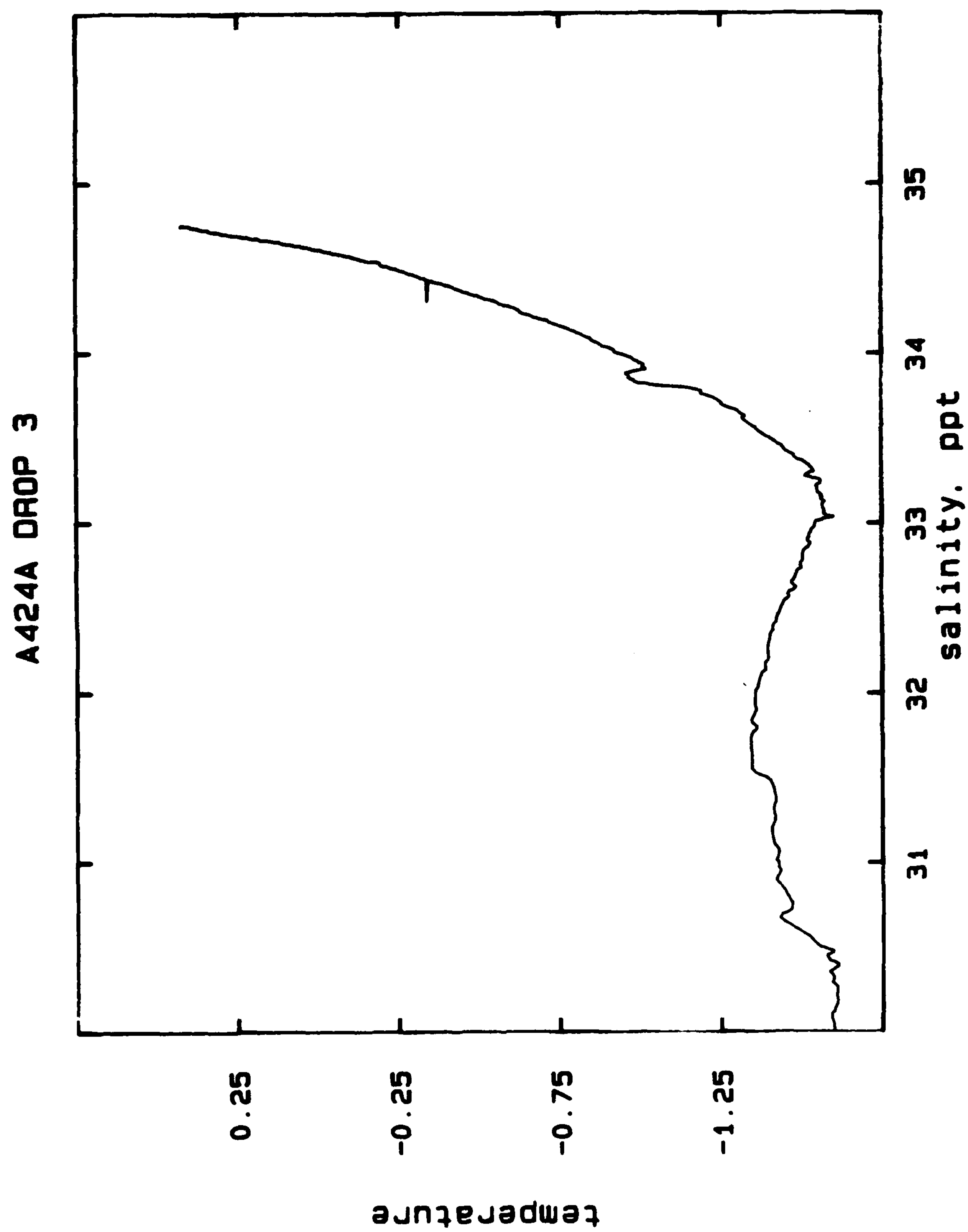

A422C DROP 1
salinity, ppt
31
32
33
34
35
temperature
0.25
-0.25
-0.75
-1.25

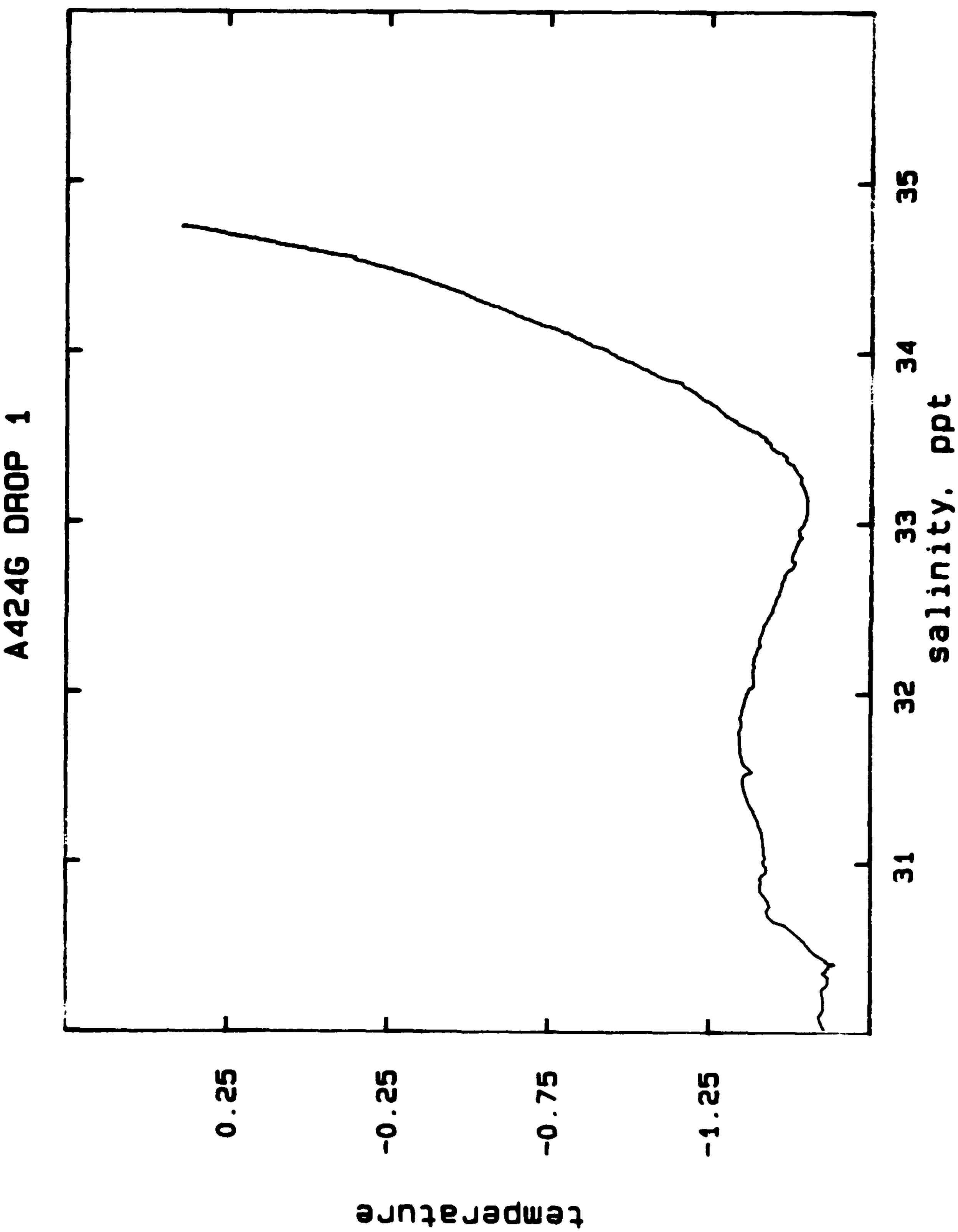

A422D DROP 1
temperature
0.25
-0.25
-0.75
-1.25
31
32
33
34
35
salinity, ppt


A422J DROP 4
temperature
0.25
-0.25
-0.75
-1.25
31
32
33
34
35
salinity, ppt

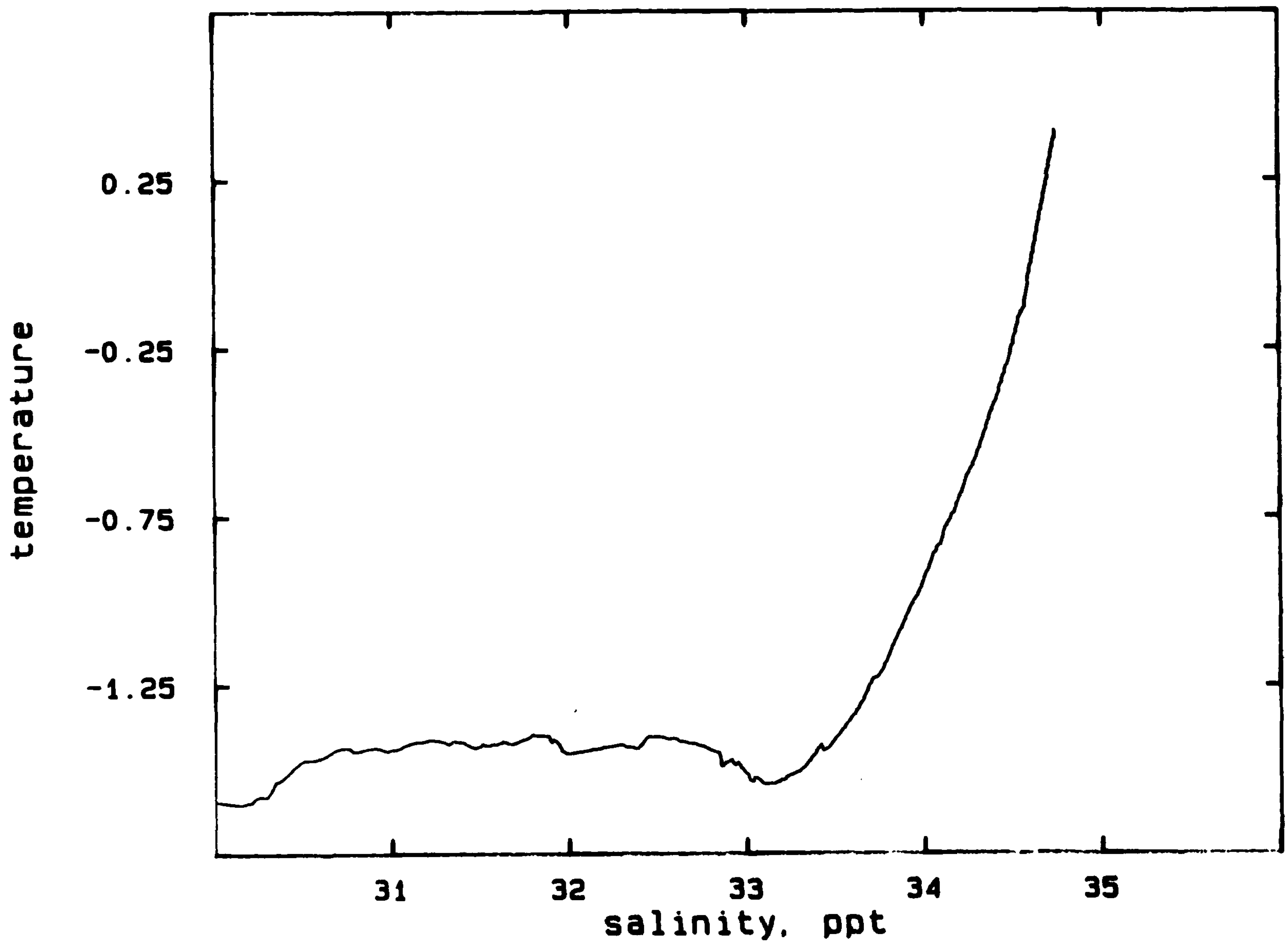

A423A DROP 2
temperature
0.25
-0.25
-0.75
-1.25
31
32
33
34
35
salinity, ppt

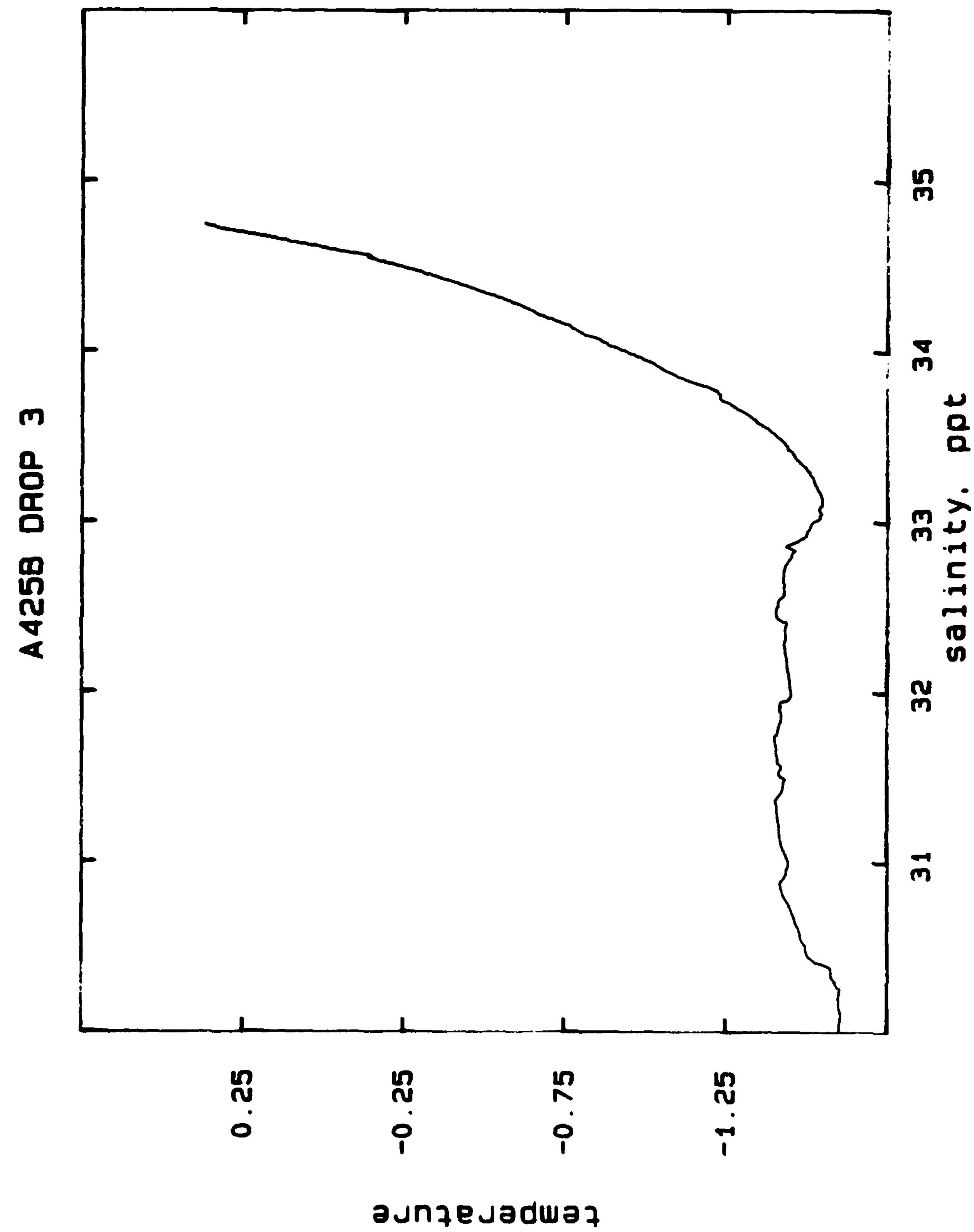

A423E DROP 3
temperature
0.25
-0.25
-0.75
-1.25
31
32
33
34
35
salinity, ppt

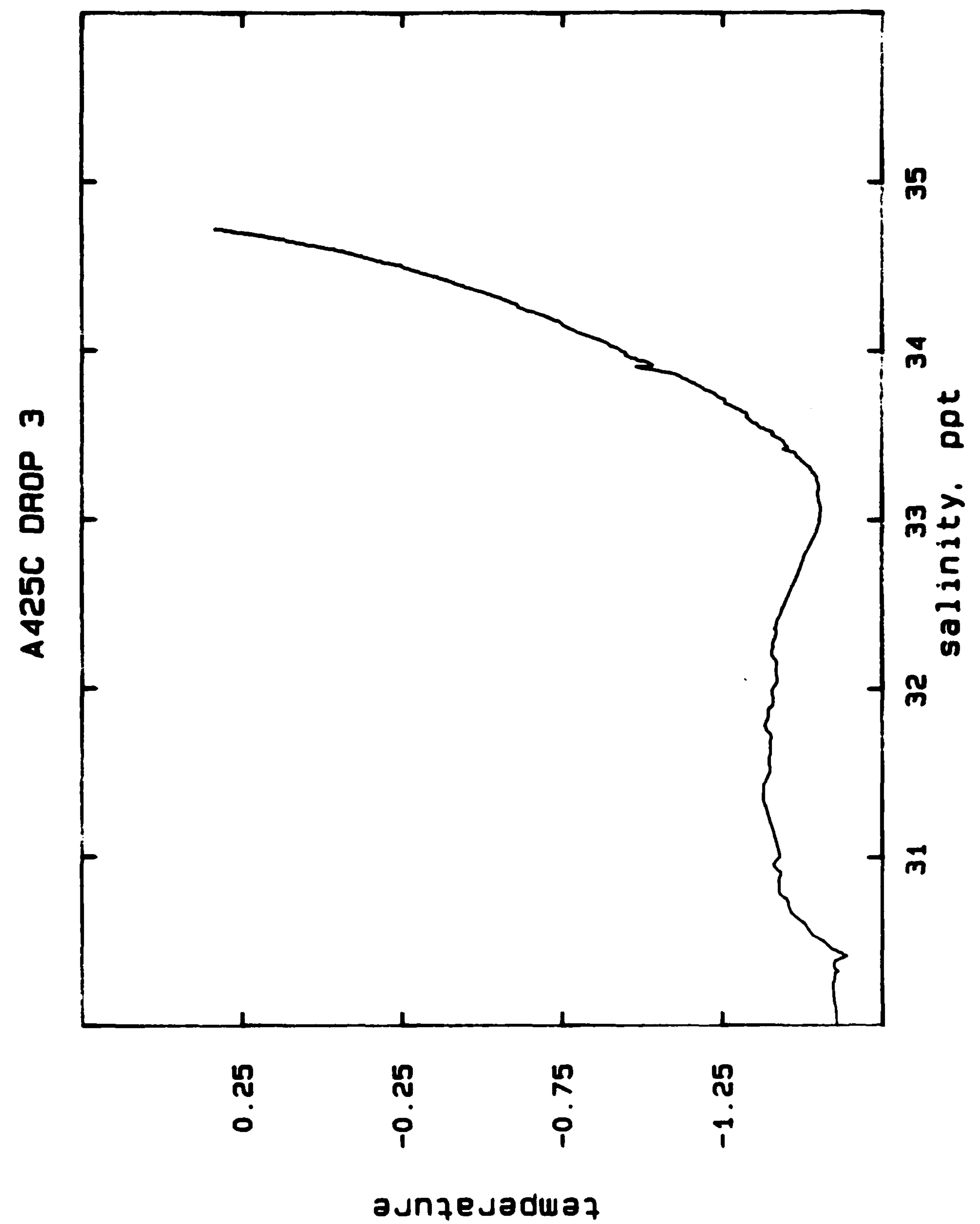

A424A DROP 3
temperature
0.25
-0.25
-0.75
-1.25
31
32
33
34
35
salinity, ppt


A424G DROP 1
salinity, ppt
31
32
33
34
35
temperature
0.25
-0.25
-0.75
-1.25

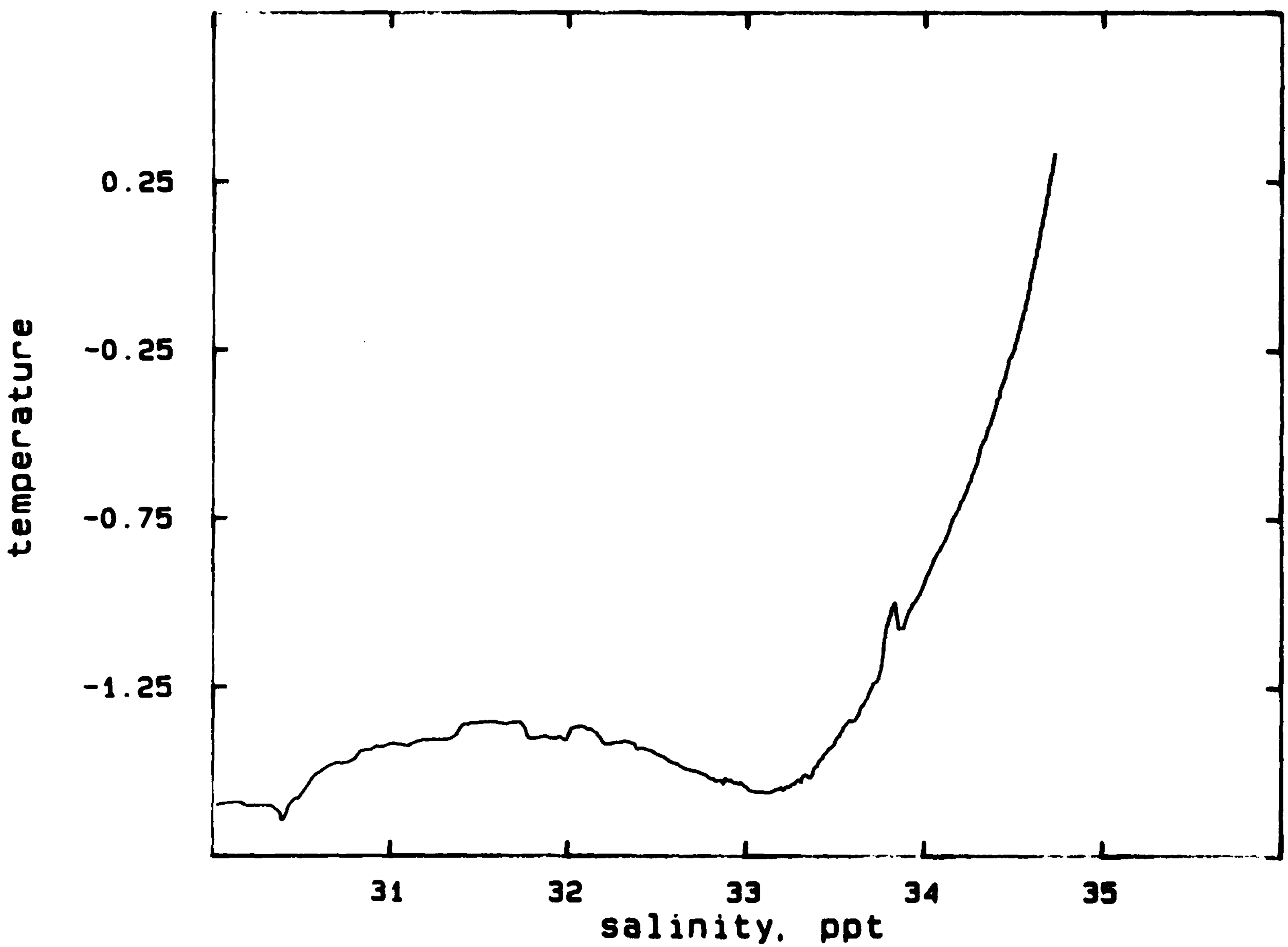
A425A DROP 3



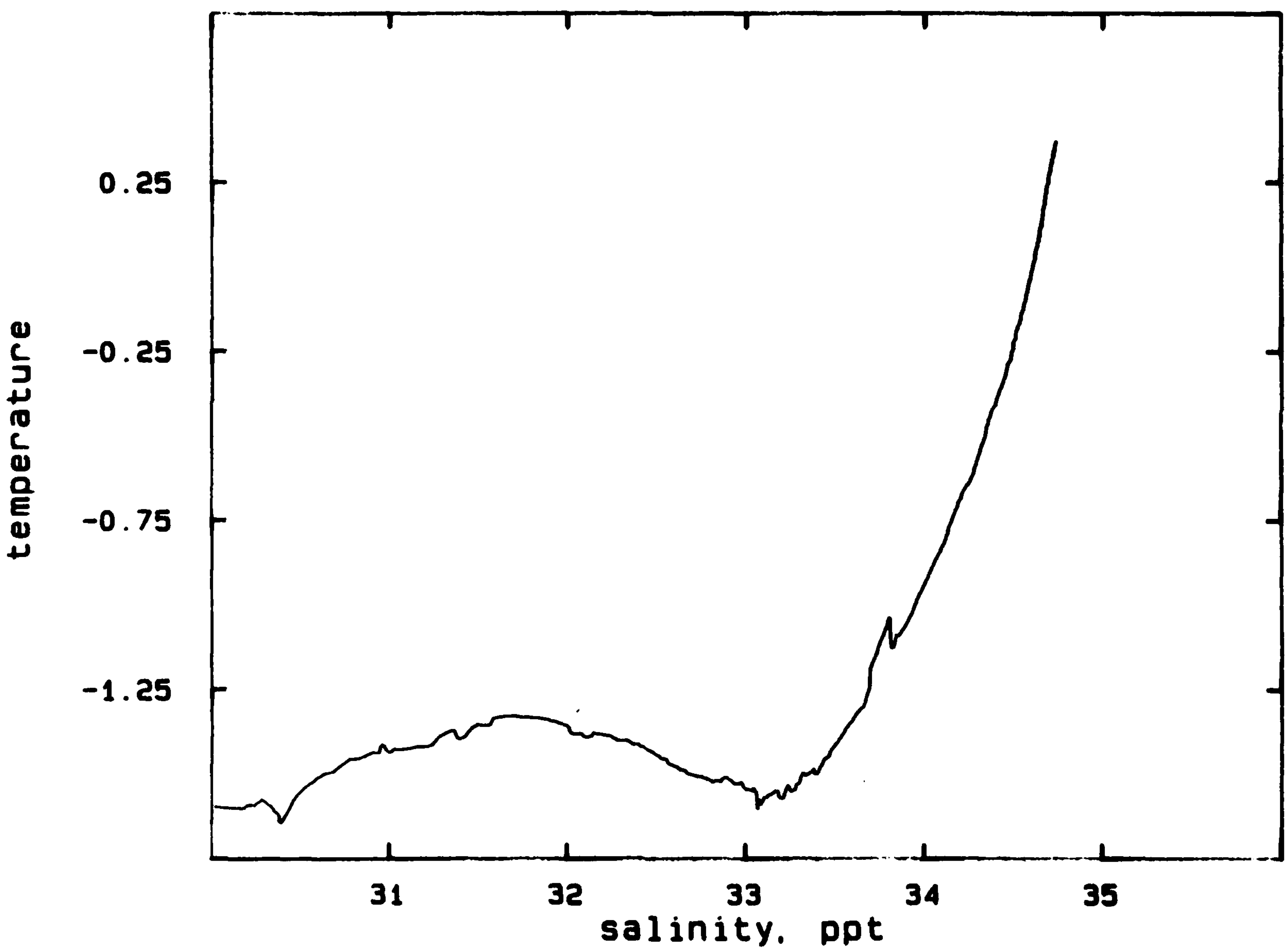

A425B DROP 3
temperature
0.25
-0.25
-0.75
-1.25
salinity, ppt
31
32
33
34
35

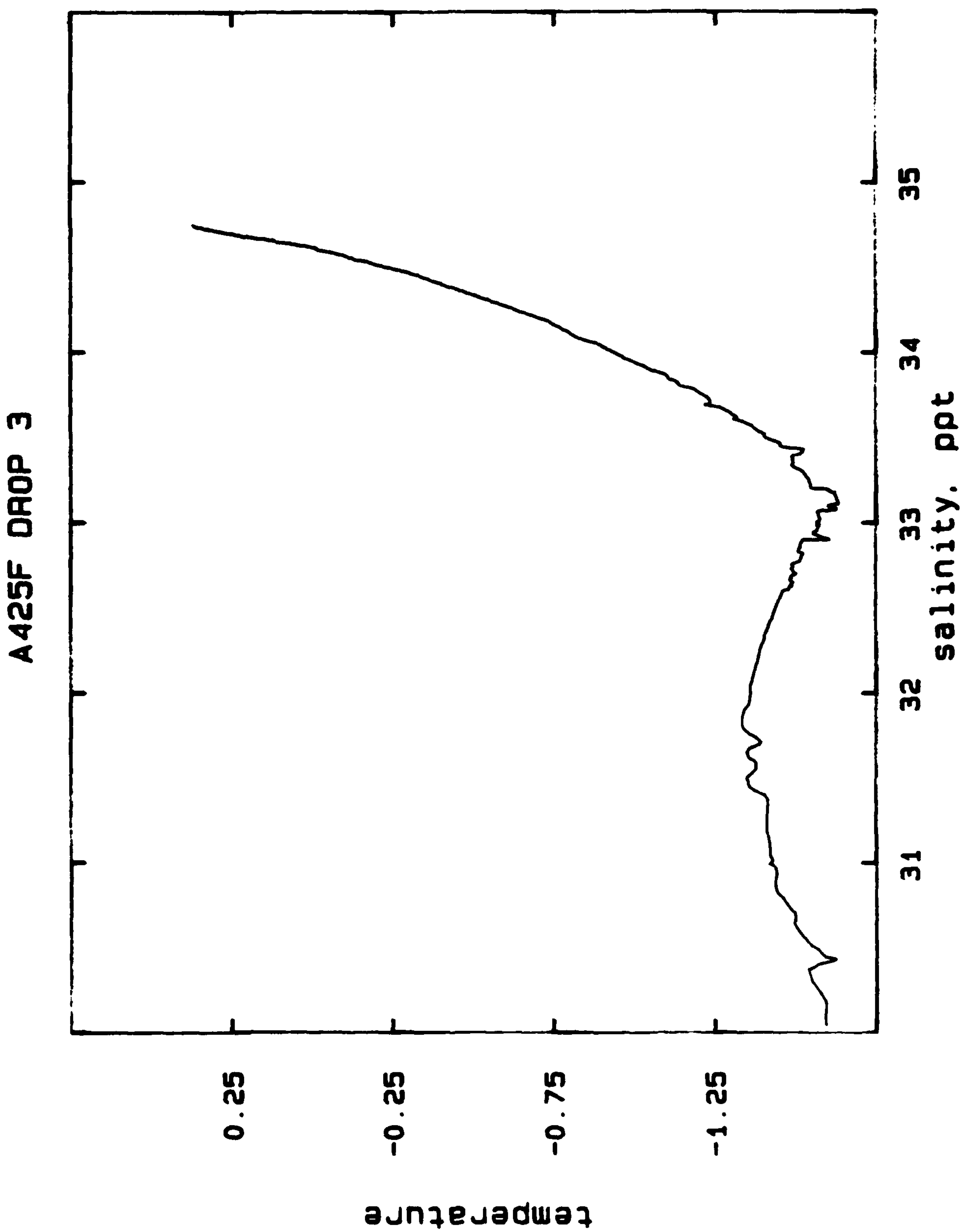

A425C DROP 3
0.25
-0.25
-0.75
-1.25
temperature
31
32
33
34
35
salinity, ppt

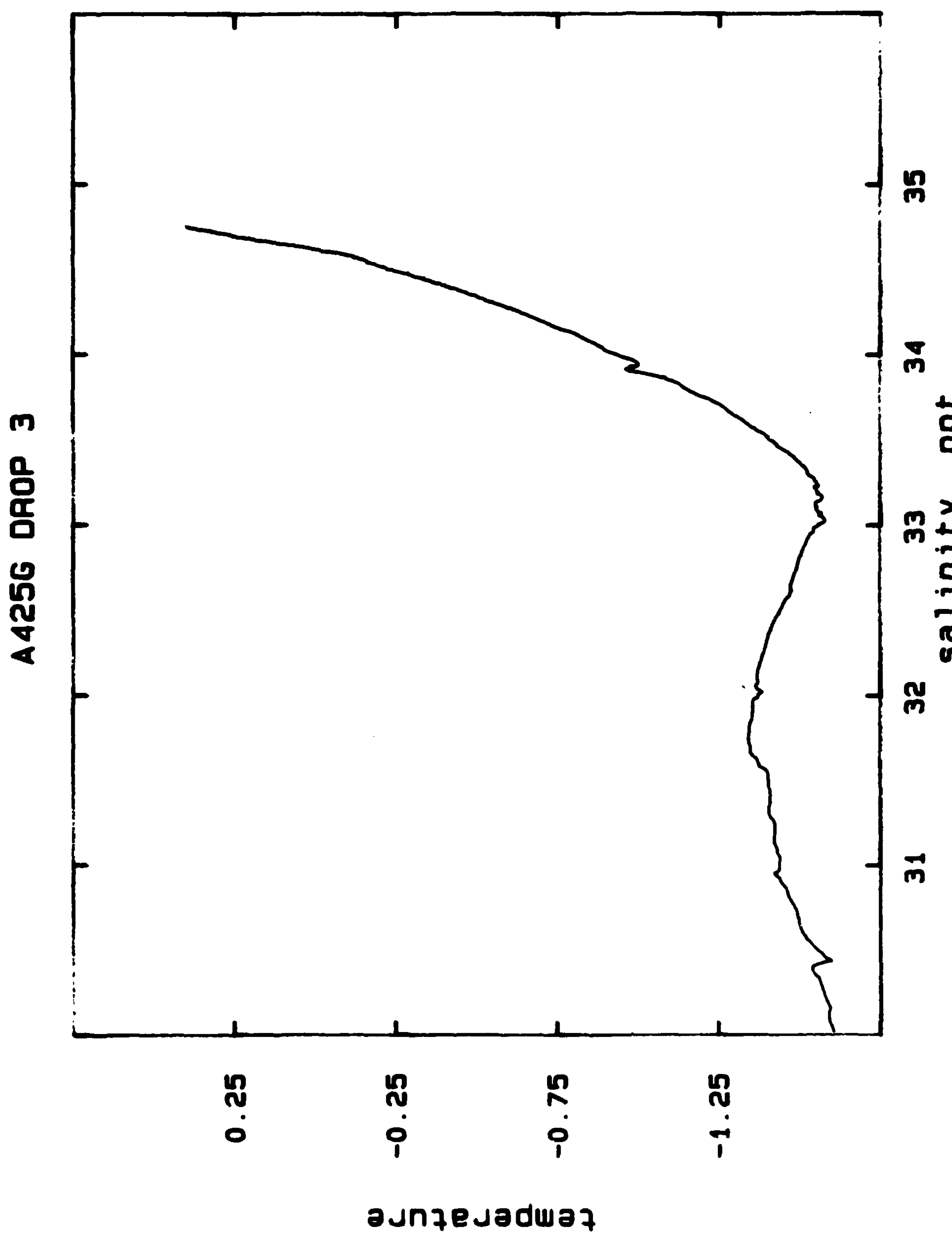
A425D DROP 3

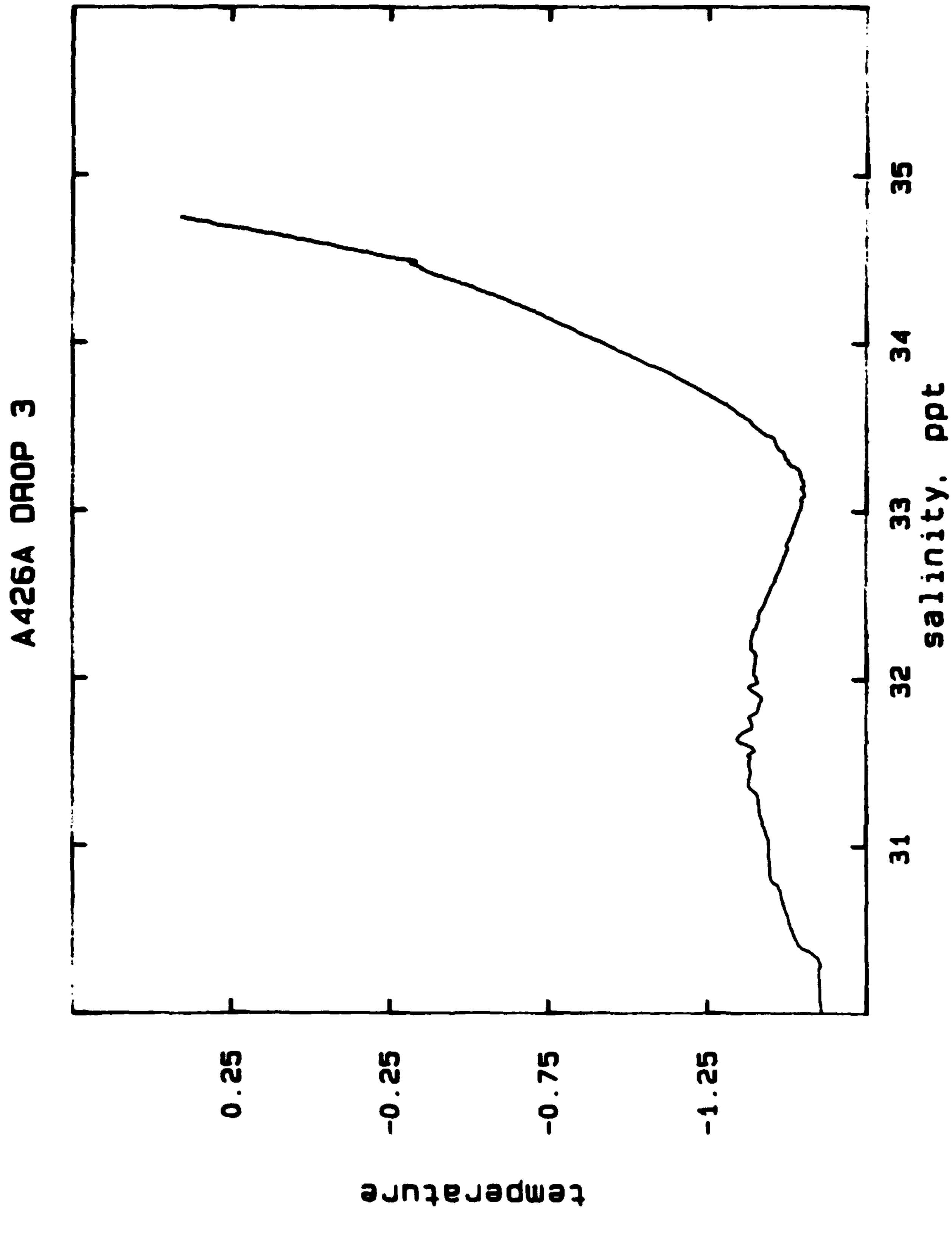


A425E DROP 3



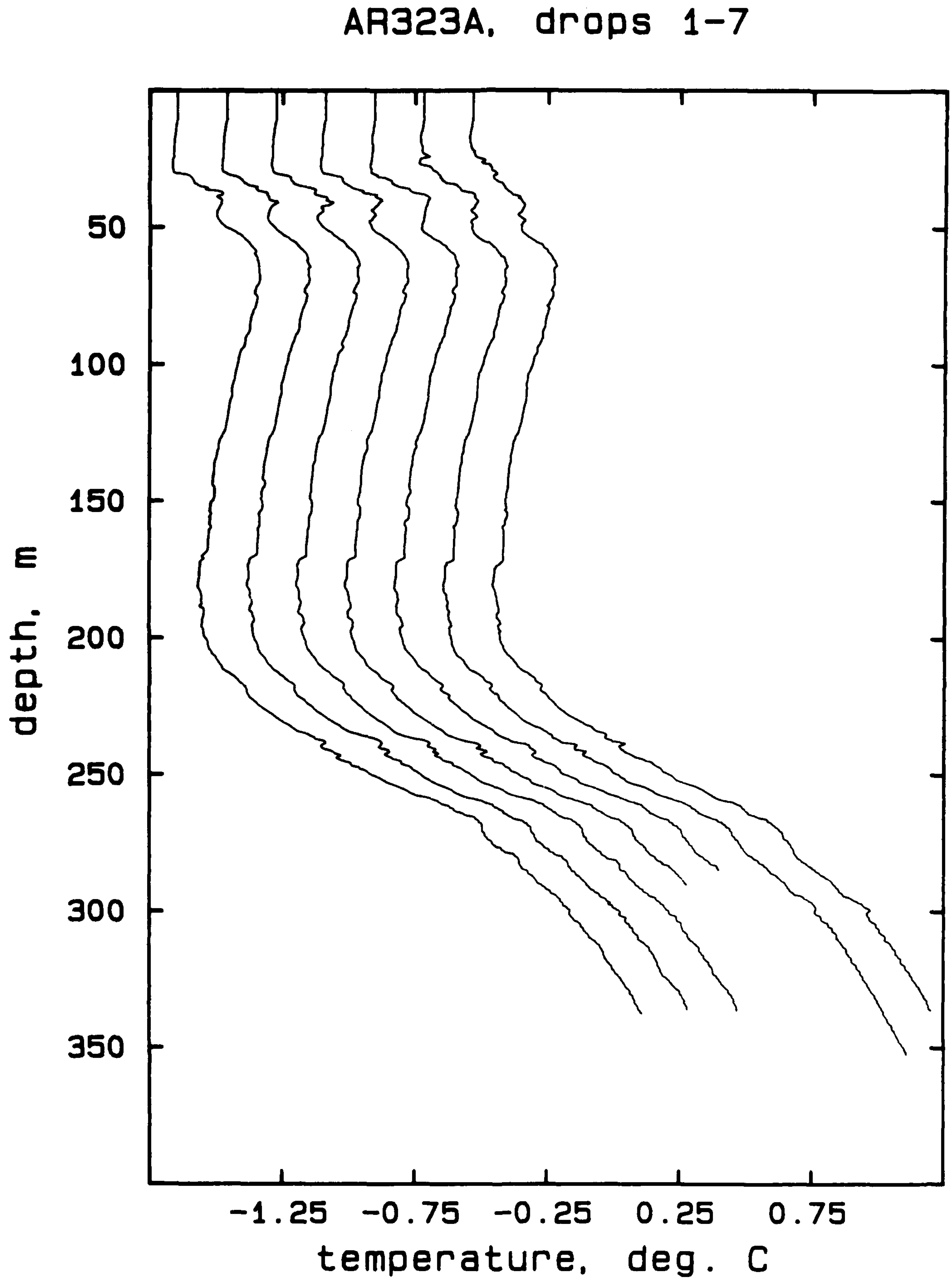

A425F DROP 3
salinity, ppt
temperature
31
32
33
34
35
0.25
-0.25
-0.75
-1.25

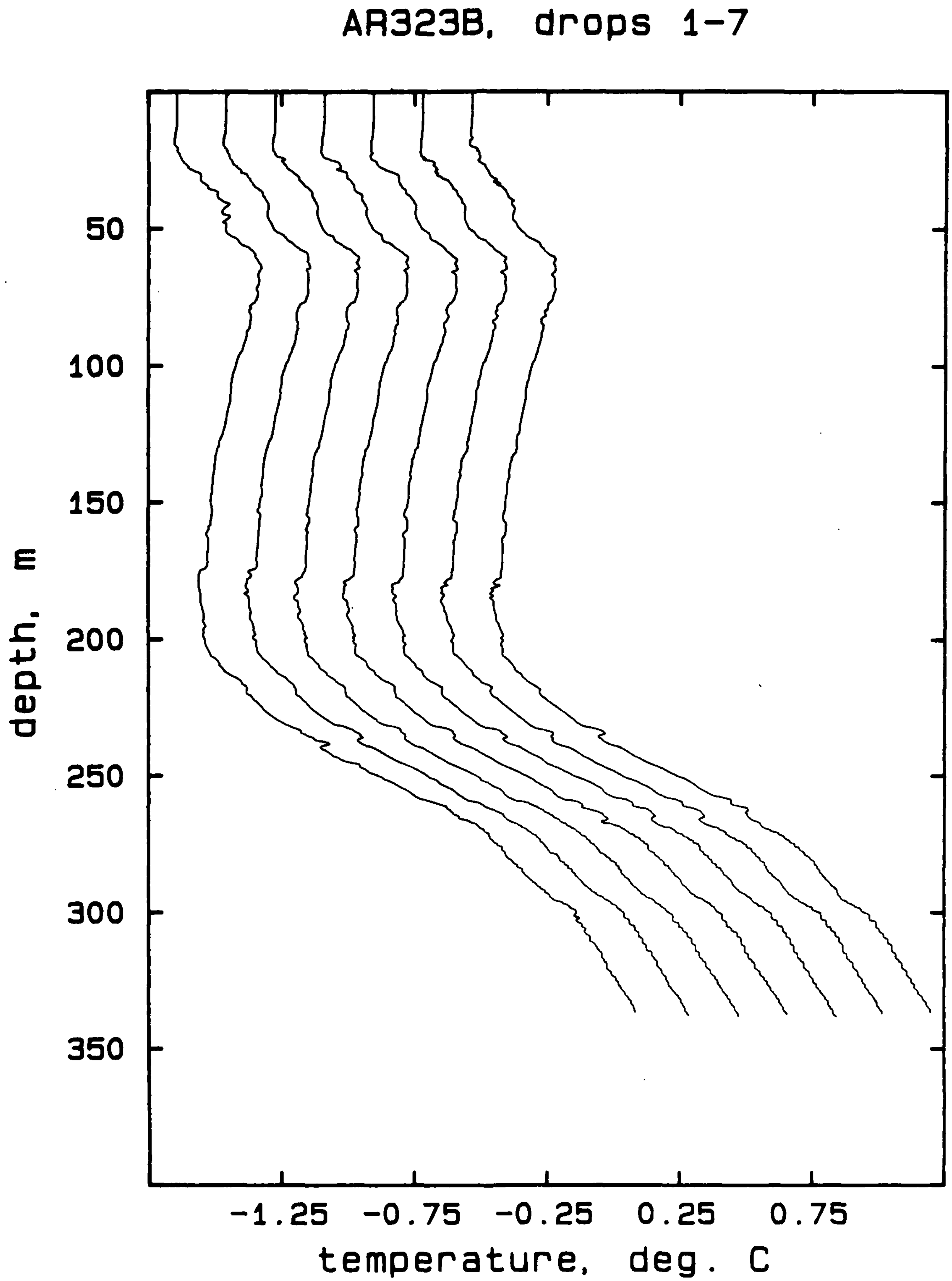

A425G DROP 3
temperature
0.25
-0.25
-0.75
-1.25
31
32
33
34
35
salinity, ppt

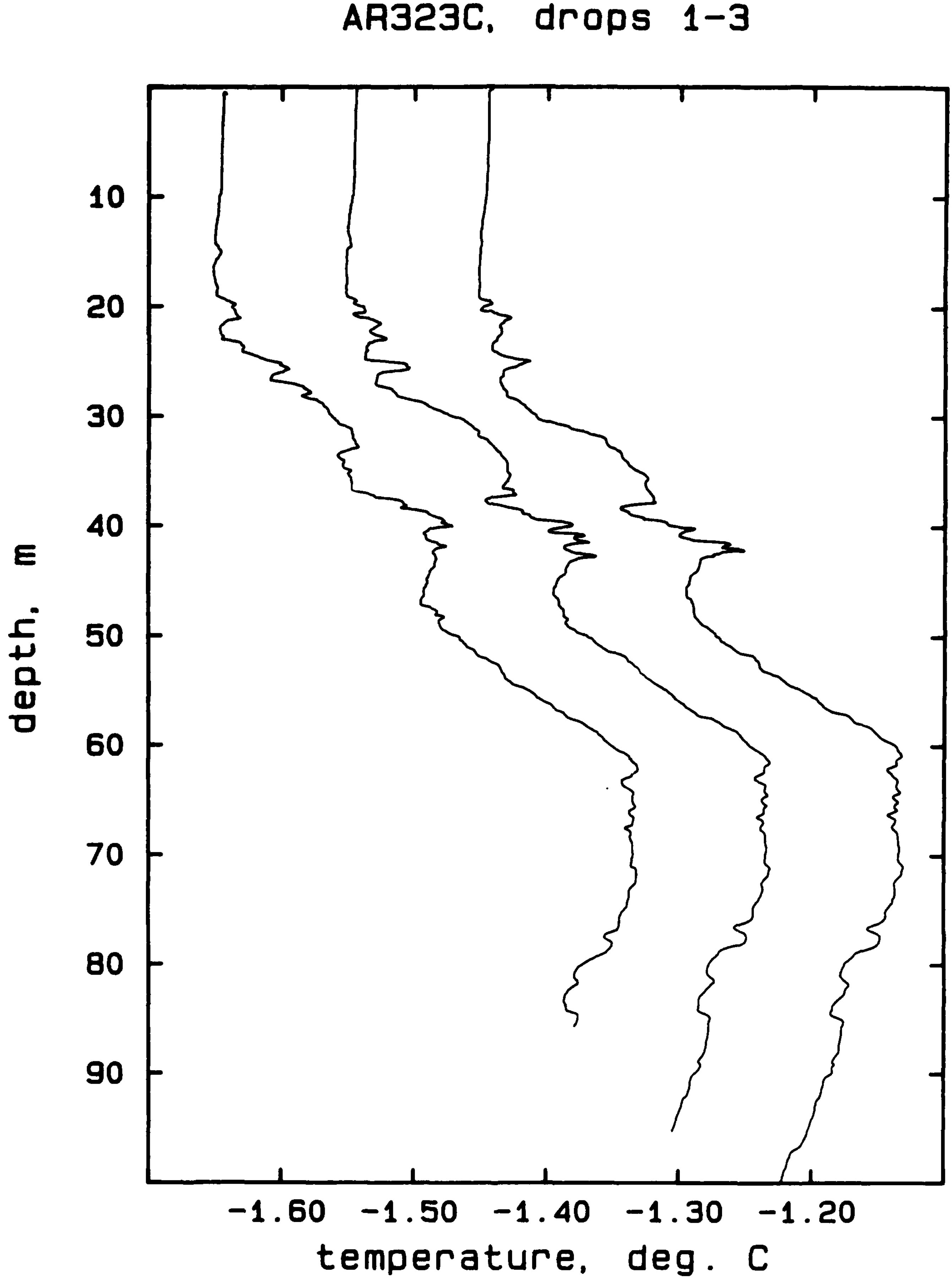

A426A DROP 3
0.25
-0.25
-0.75
-1.25
temperature
31
32
33
34
35
salinity, ppt

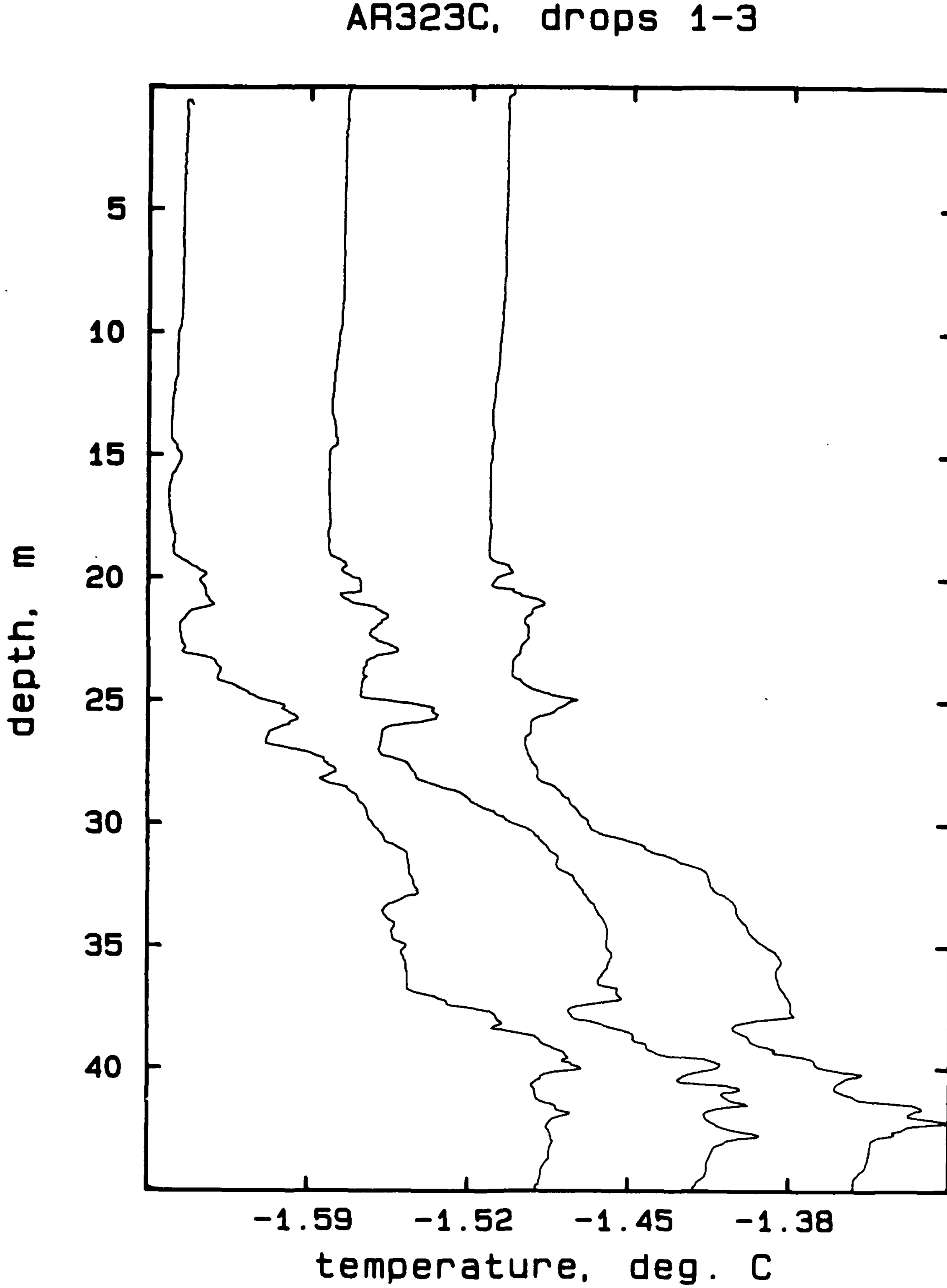
OBSERVATIONS:

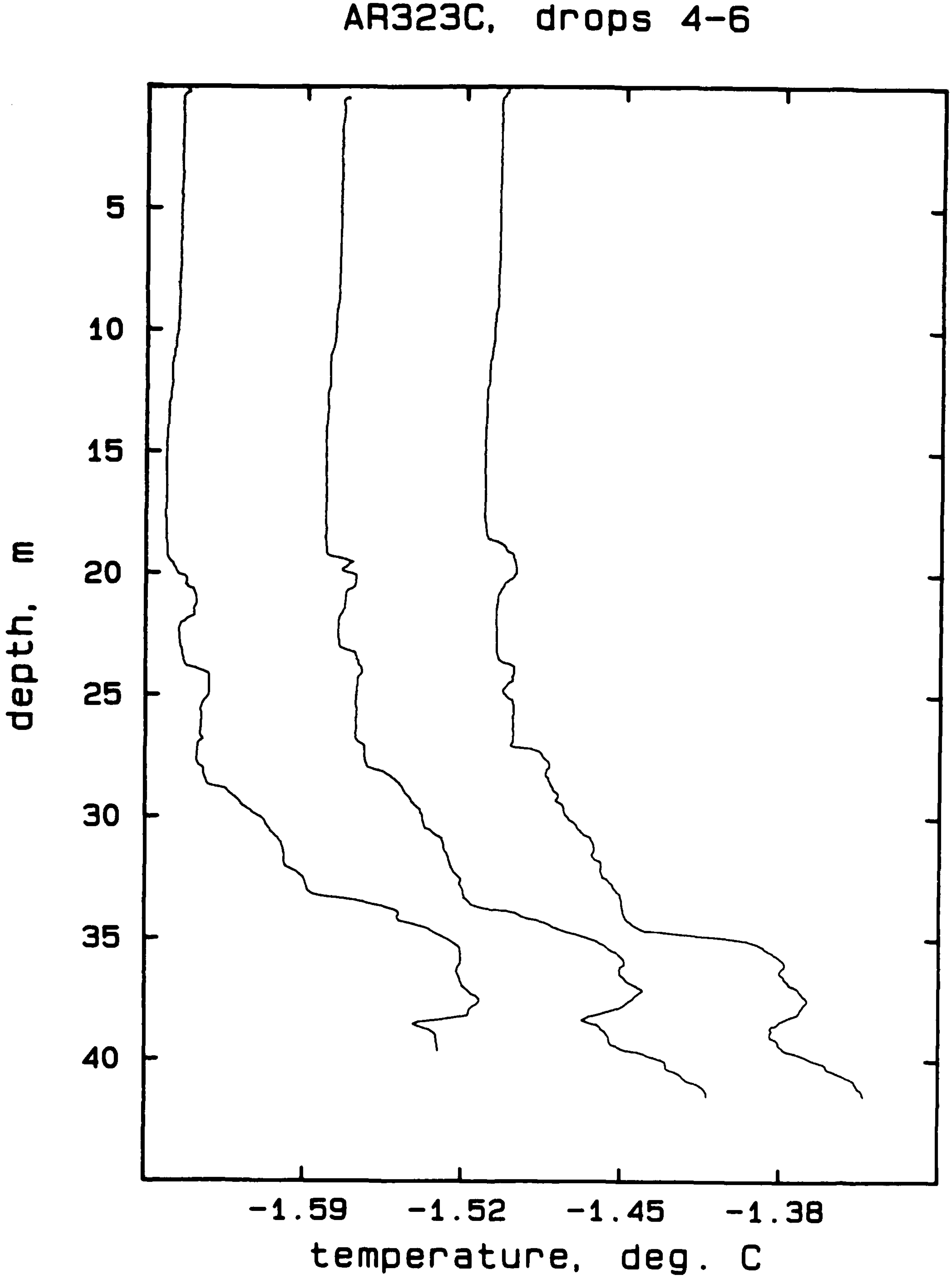
C. TEMPERATURE PROFILES


AR323A, drops 1-7
50
100
150
200
250
300
350
depth, m
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C

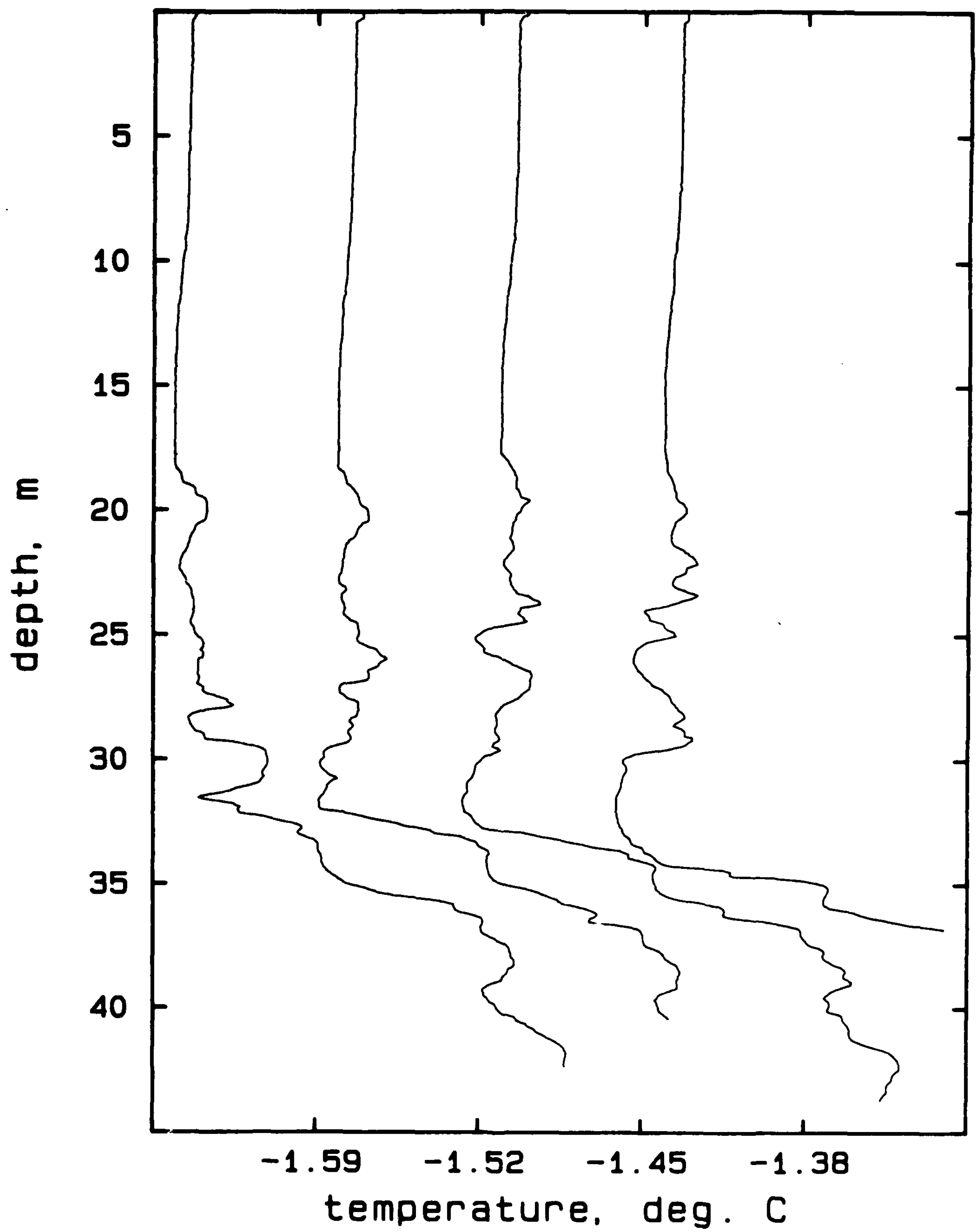

AR323B, drops 1-7
50
100
150
200
250
300
350
depth, m
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C


AR323C, drops 1-3
10
20
30
40
50
60
70
80
90
depth, m
-1.60
-1.50
-1.40
-1.30
-1.20
temperature, deg. C

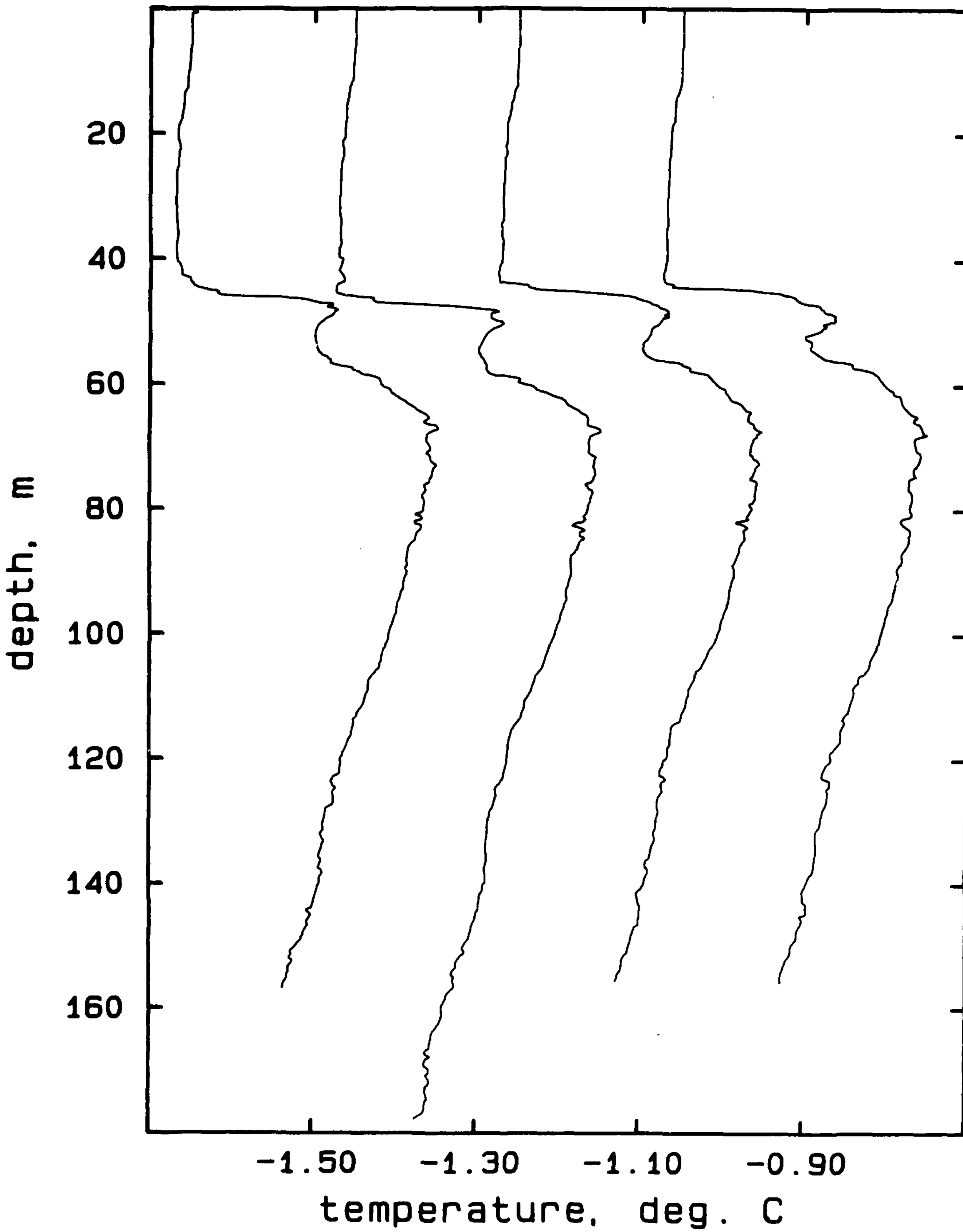

AR323C, drops 1-3
5
10
15
20
25
30
35
40
depth, m
-1.59
-1.52
-1.45
-1.38
temperature, deg. C


AR323C, drops 4-6
depth, m
5
10
15
20
25
30
35
40
-1.59
-1.52
-1.45
-1.38
temperature, deg. C

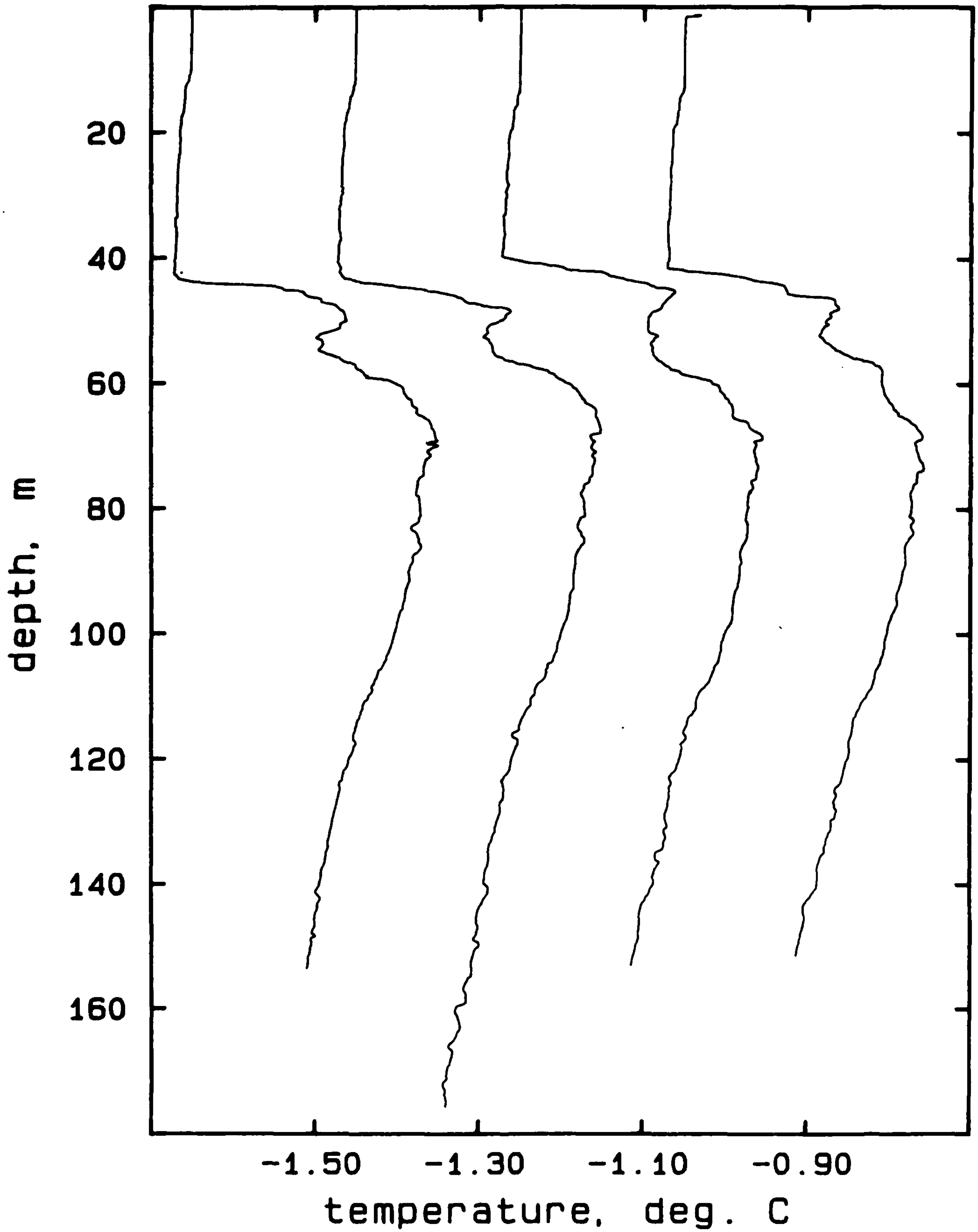
AR323C, drops 7-10

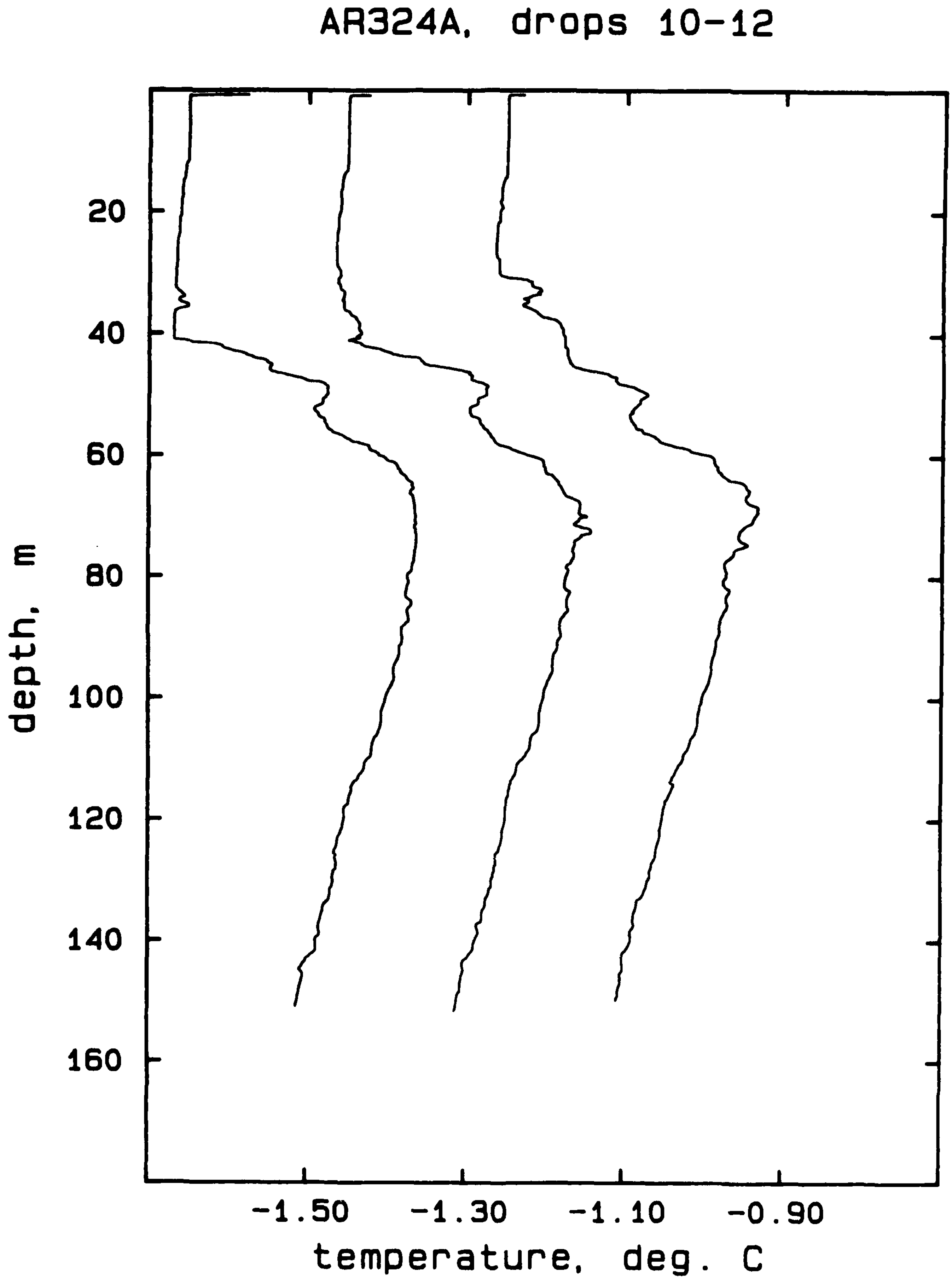


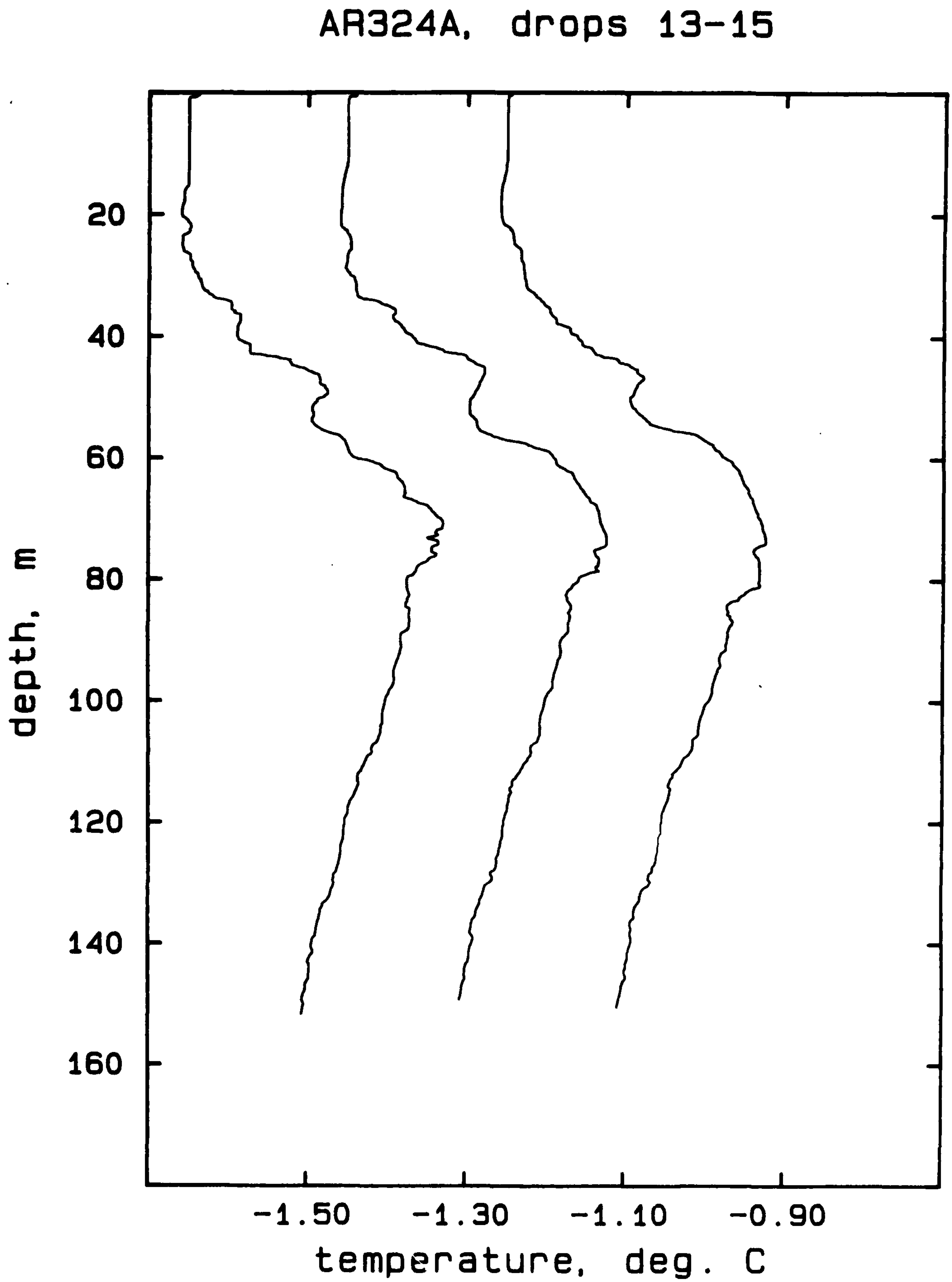
AR324A, drops 1-4

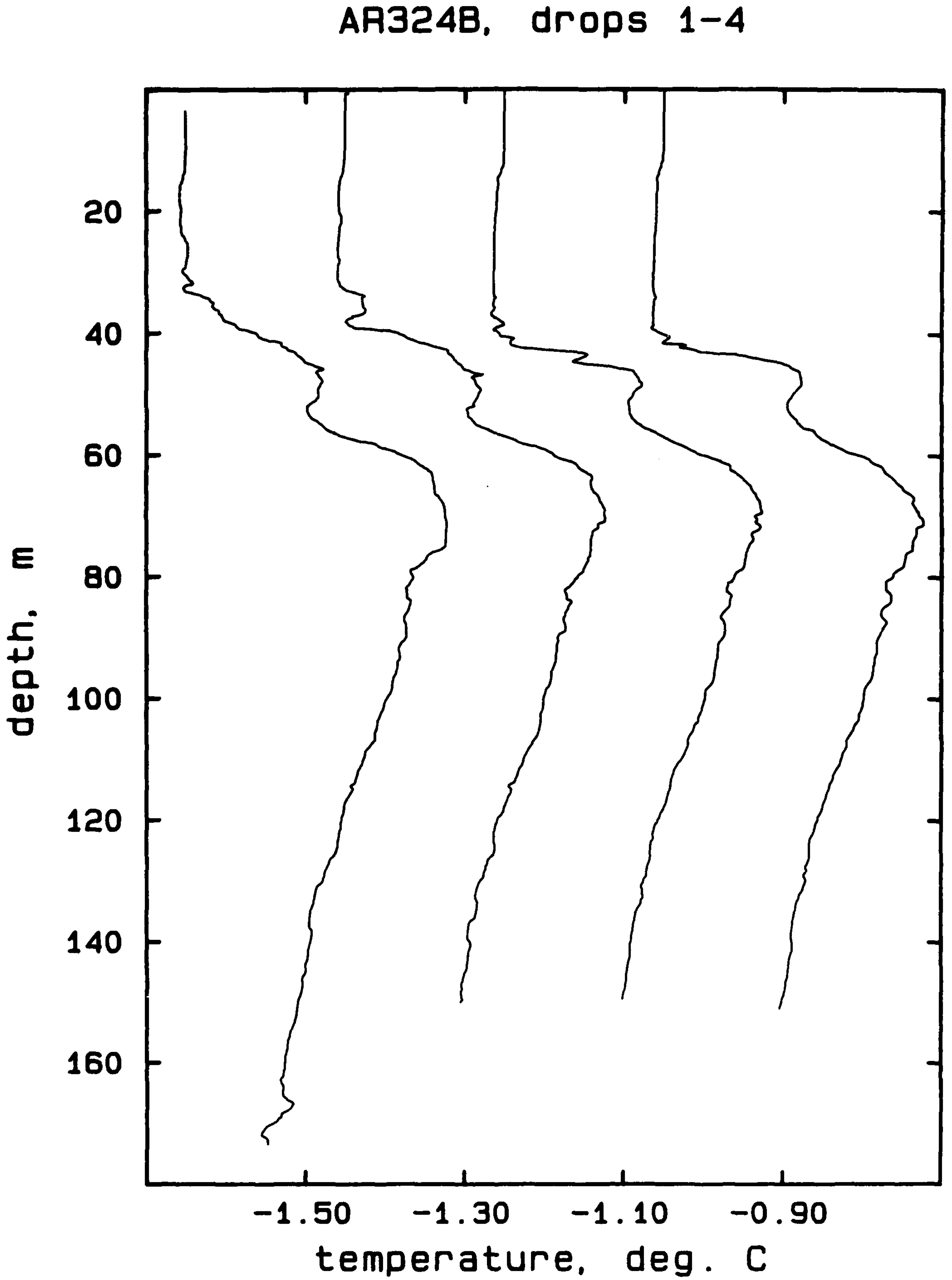


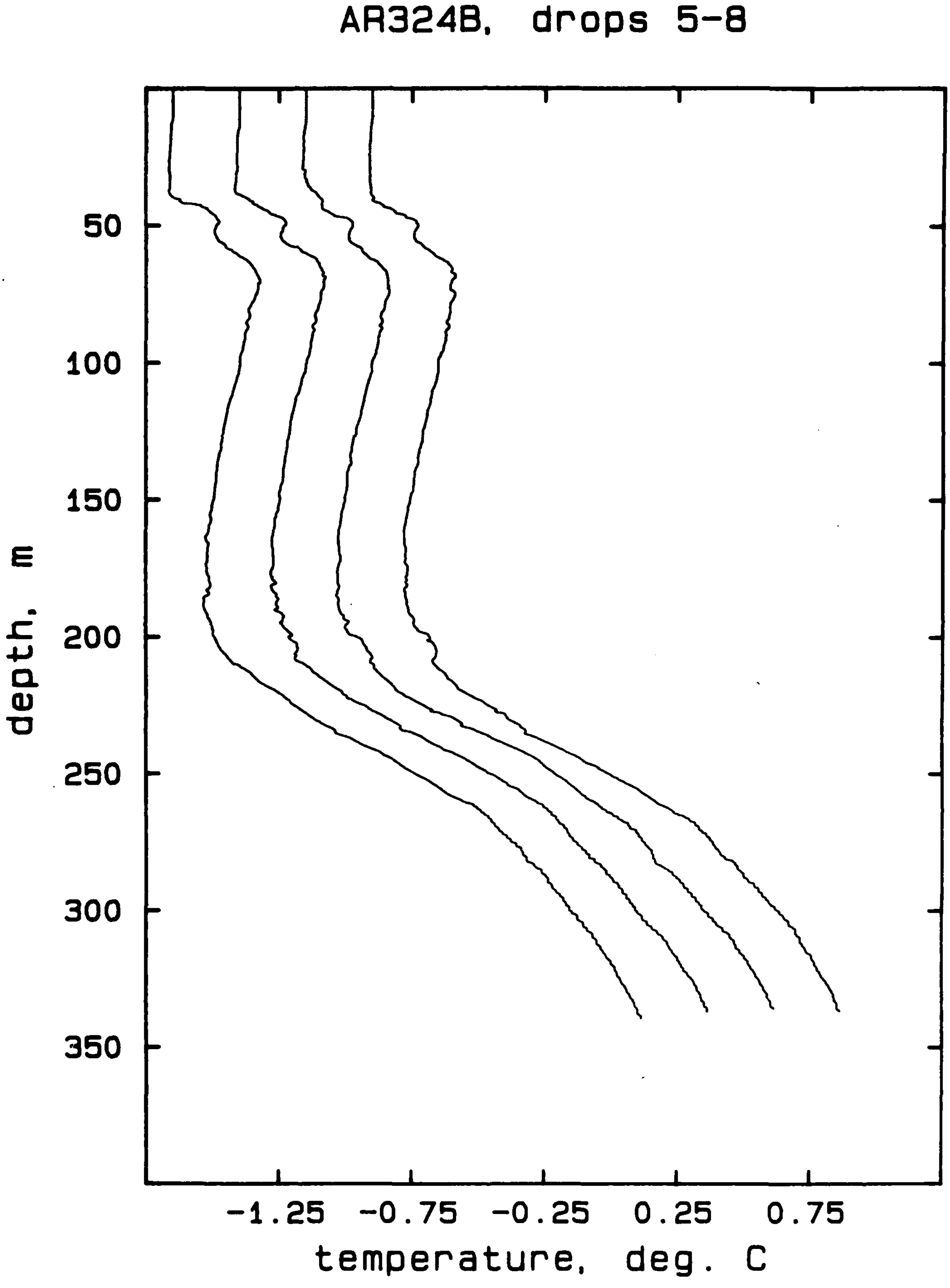
AR324A, drops 5, 6, 8, 9

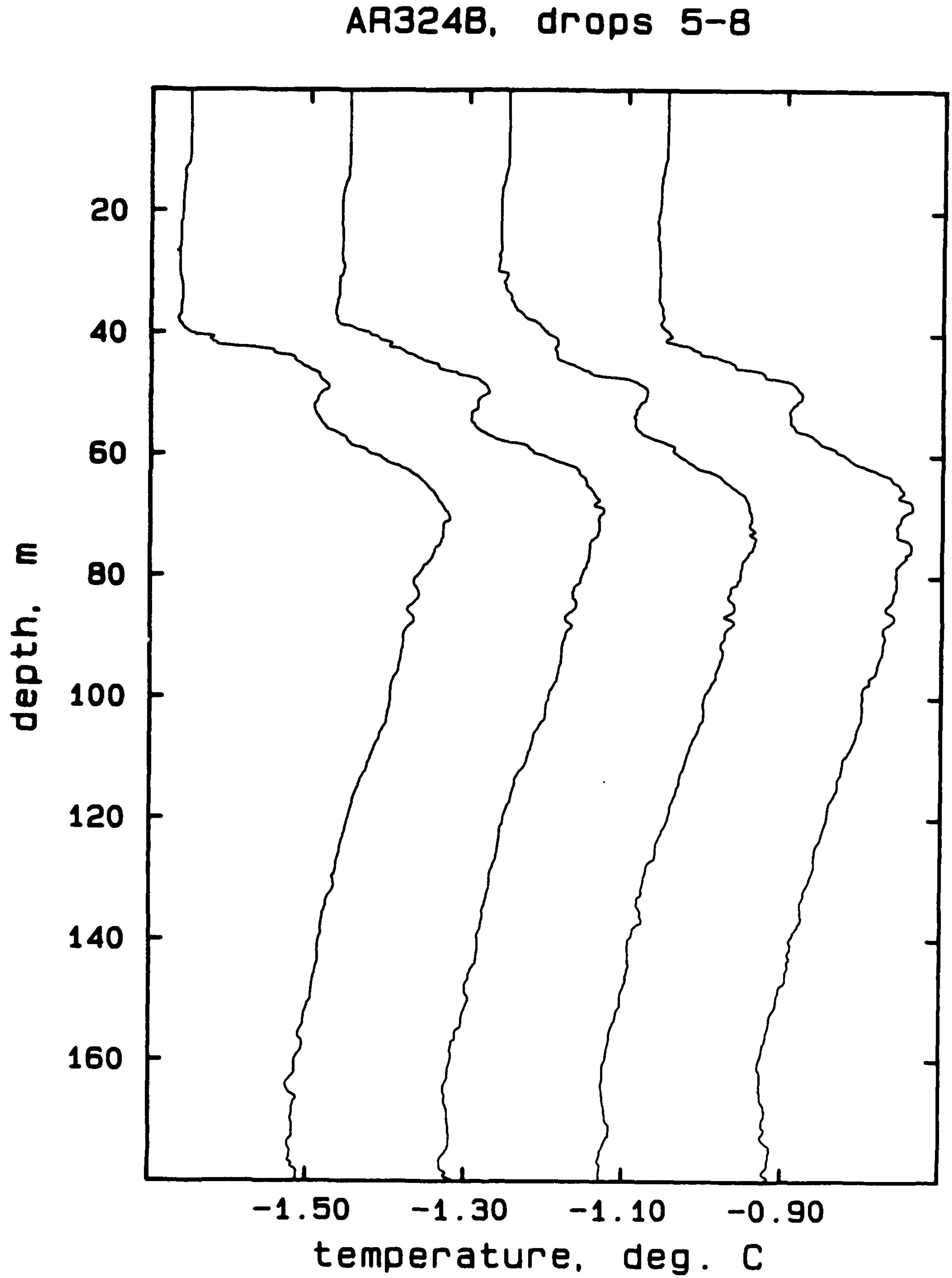


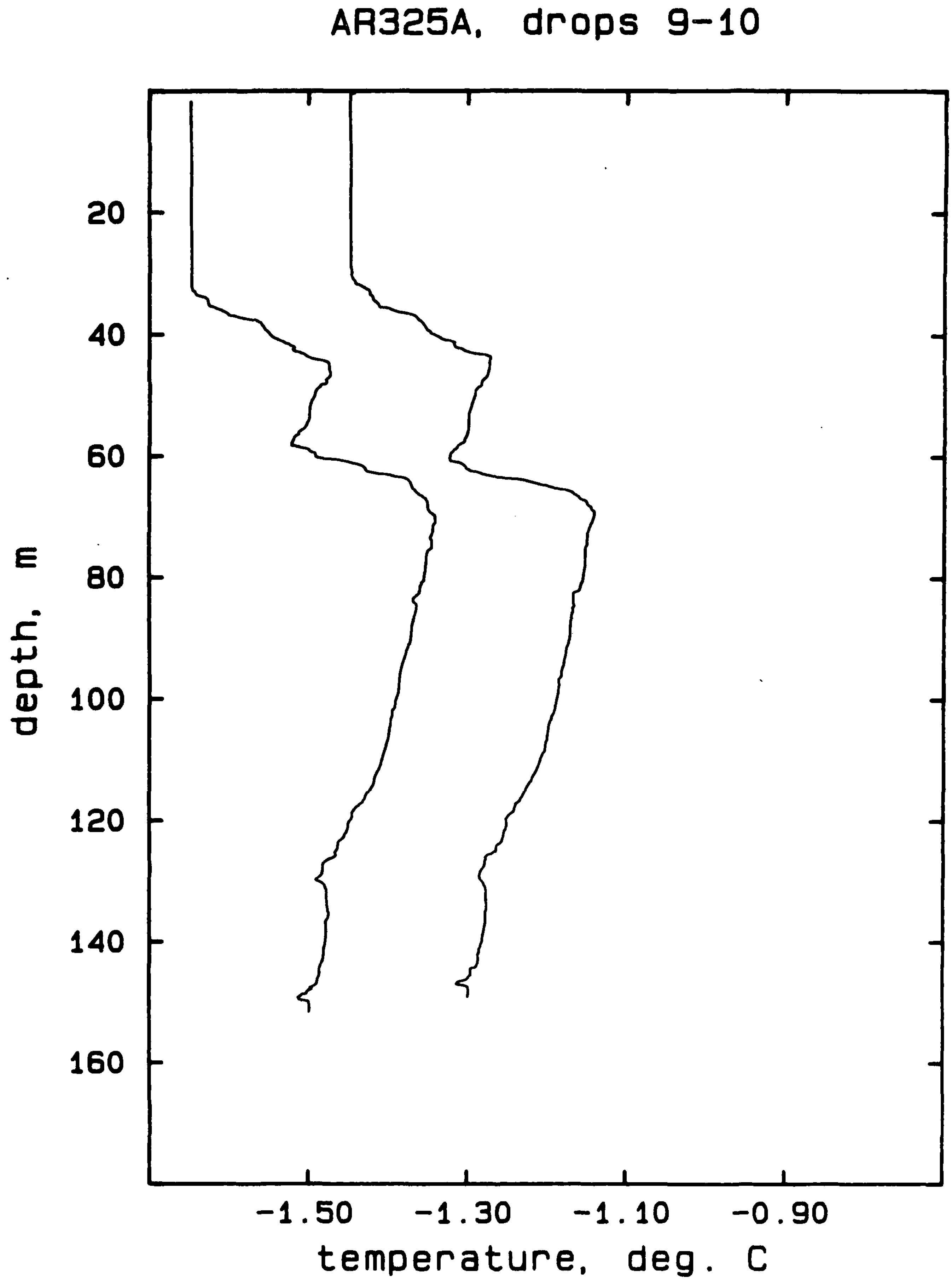

AR324A, drops 10-12
20
40
60
80
100
120
140
160
depth, m
-1.50
-1.30
-1.10
-0.90
temperature, deg. C


AR324A, drops 13-15
depth, m
20
40
60
80
100
120
140
160
-1.50
-1.30
-1.10
-0.90
temperature, deg. C

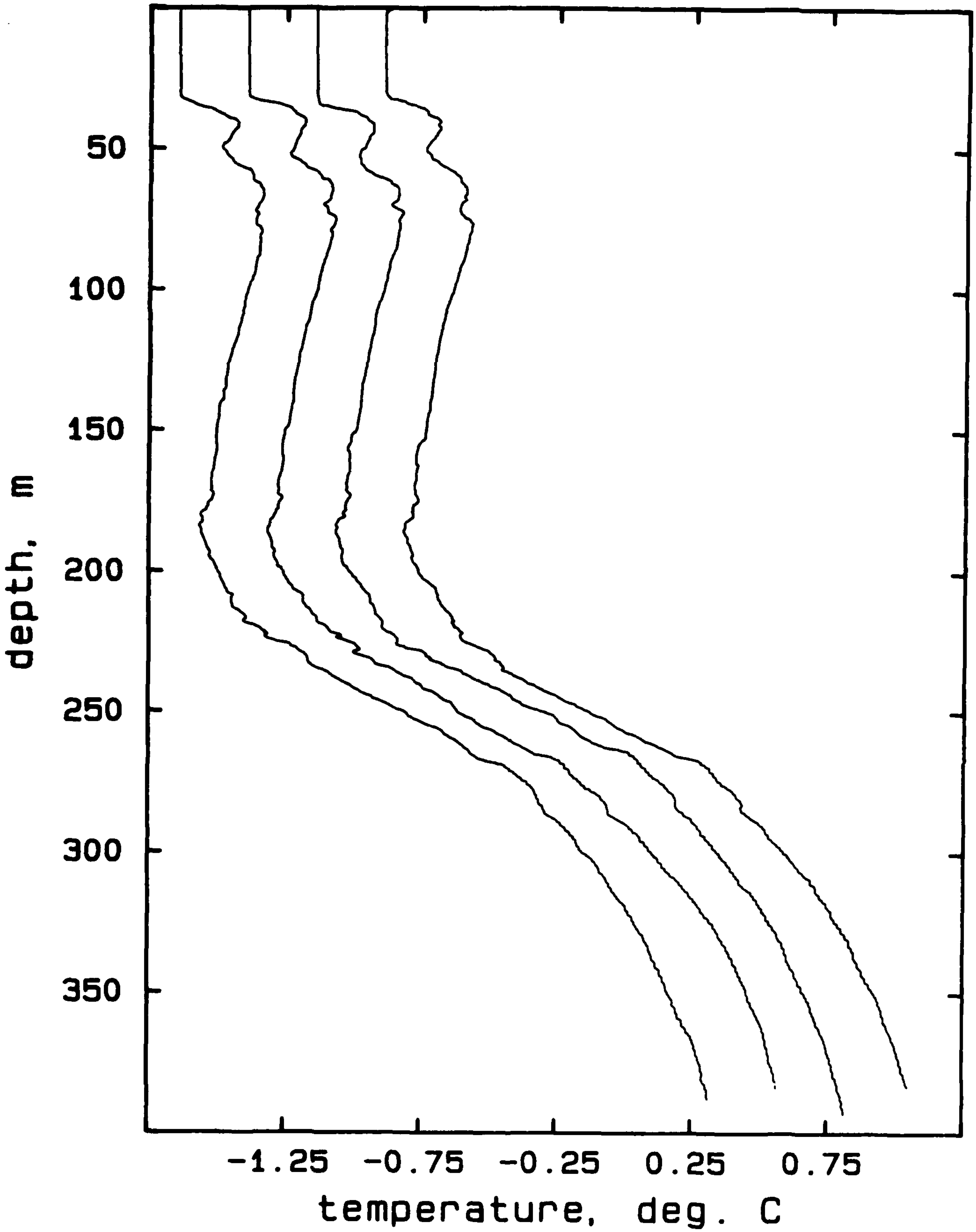

AR324B, drops 1-4
20
40
60
80
100
120
140
160
depth, m
-1.50
-1.30
-1.10
-0.90
temperature, deg. C

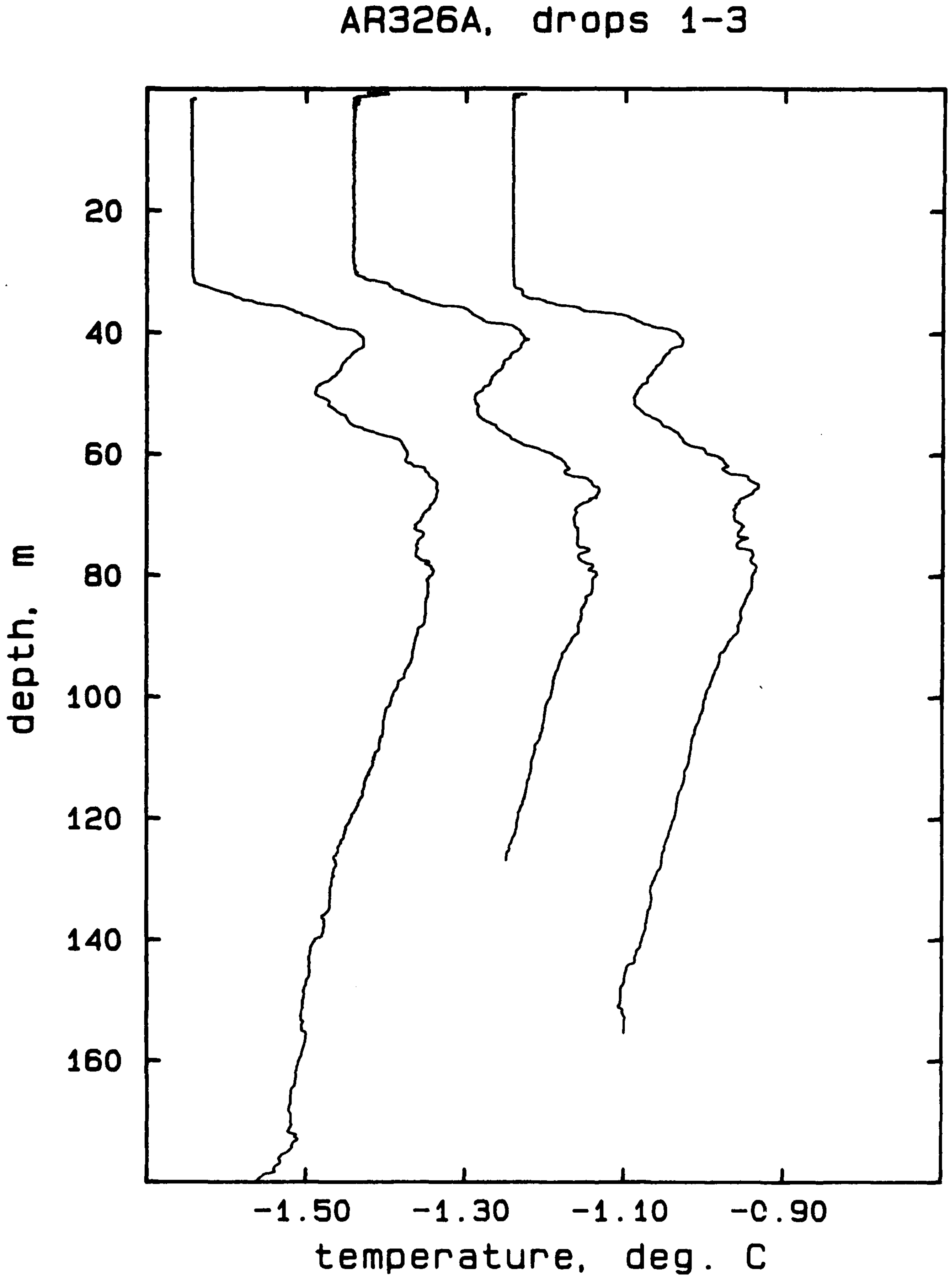

AR324B, drops 5-8
50
100
150
200
250
300
350
depth, m
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C

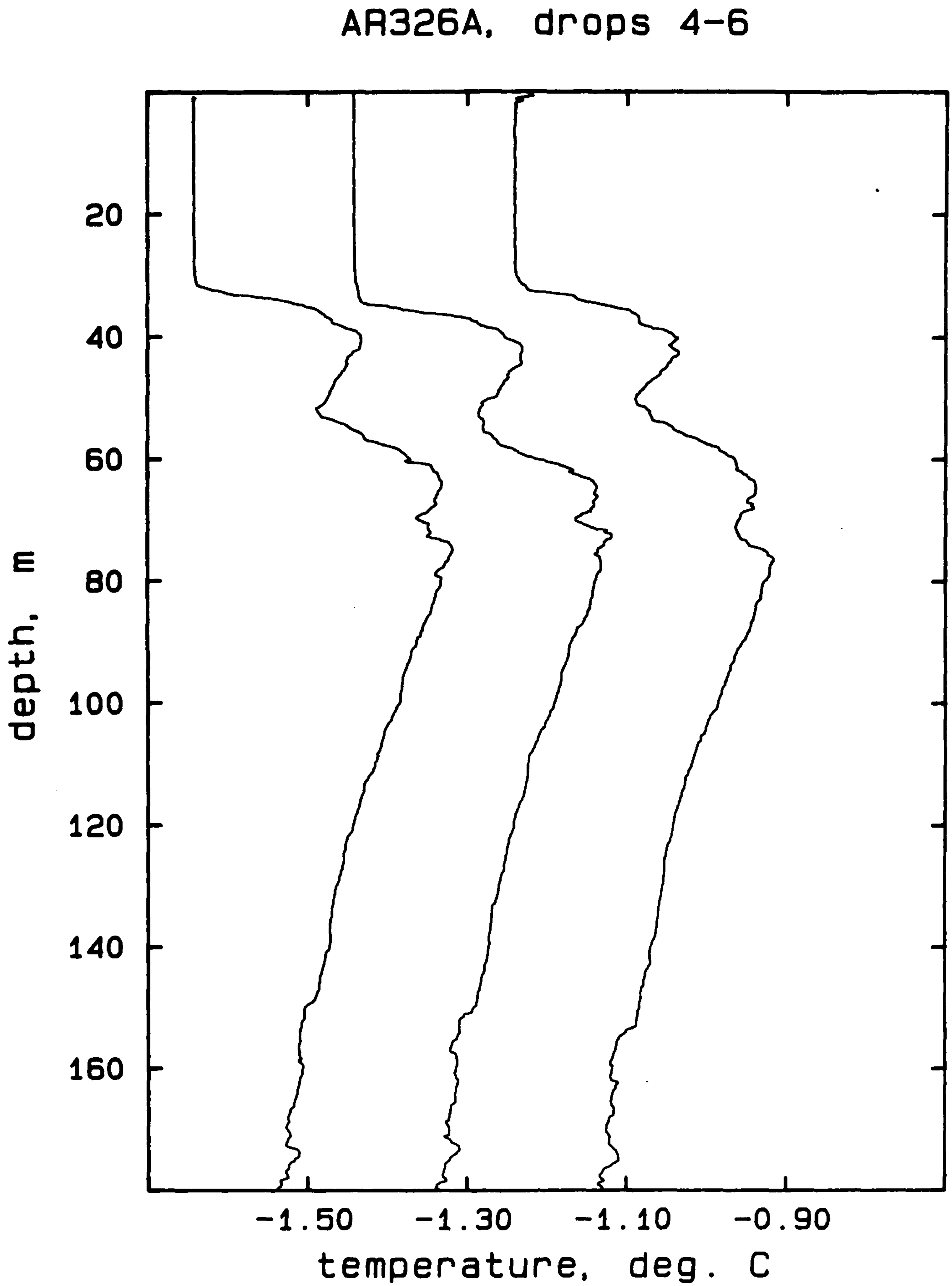

AR324B, drops 5-8
20
40
60
80
100
120
140
160
depth, m
-1.50
-1.30
-1.10
-0.90
temperature, deg. C

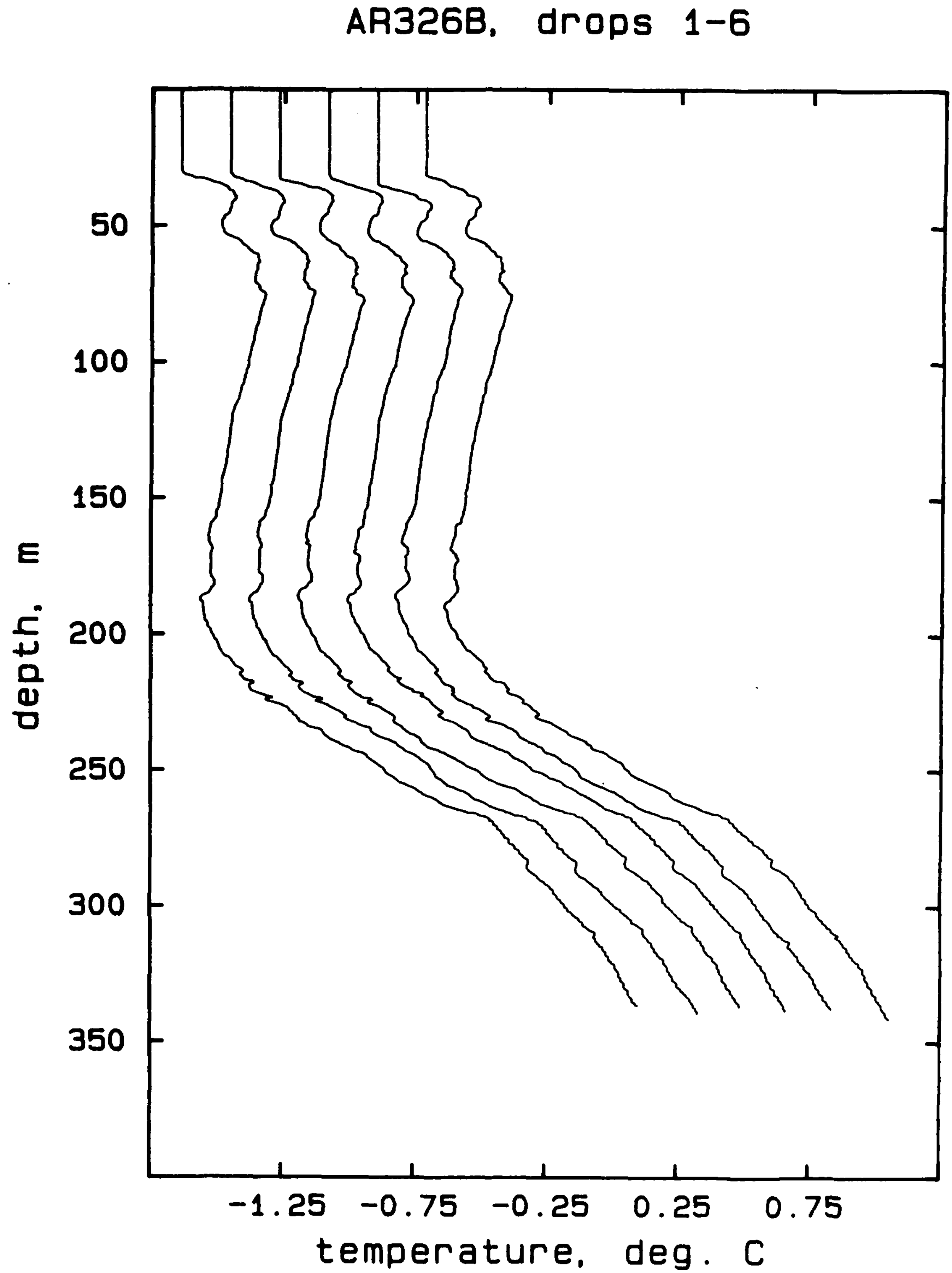

AR325A, drops 9-10
20
40
60
80
100
120
140
160
depth, m
-1.50
-1.30
-1.10
-0.90
temperature, deg. C

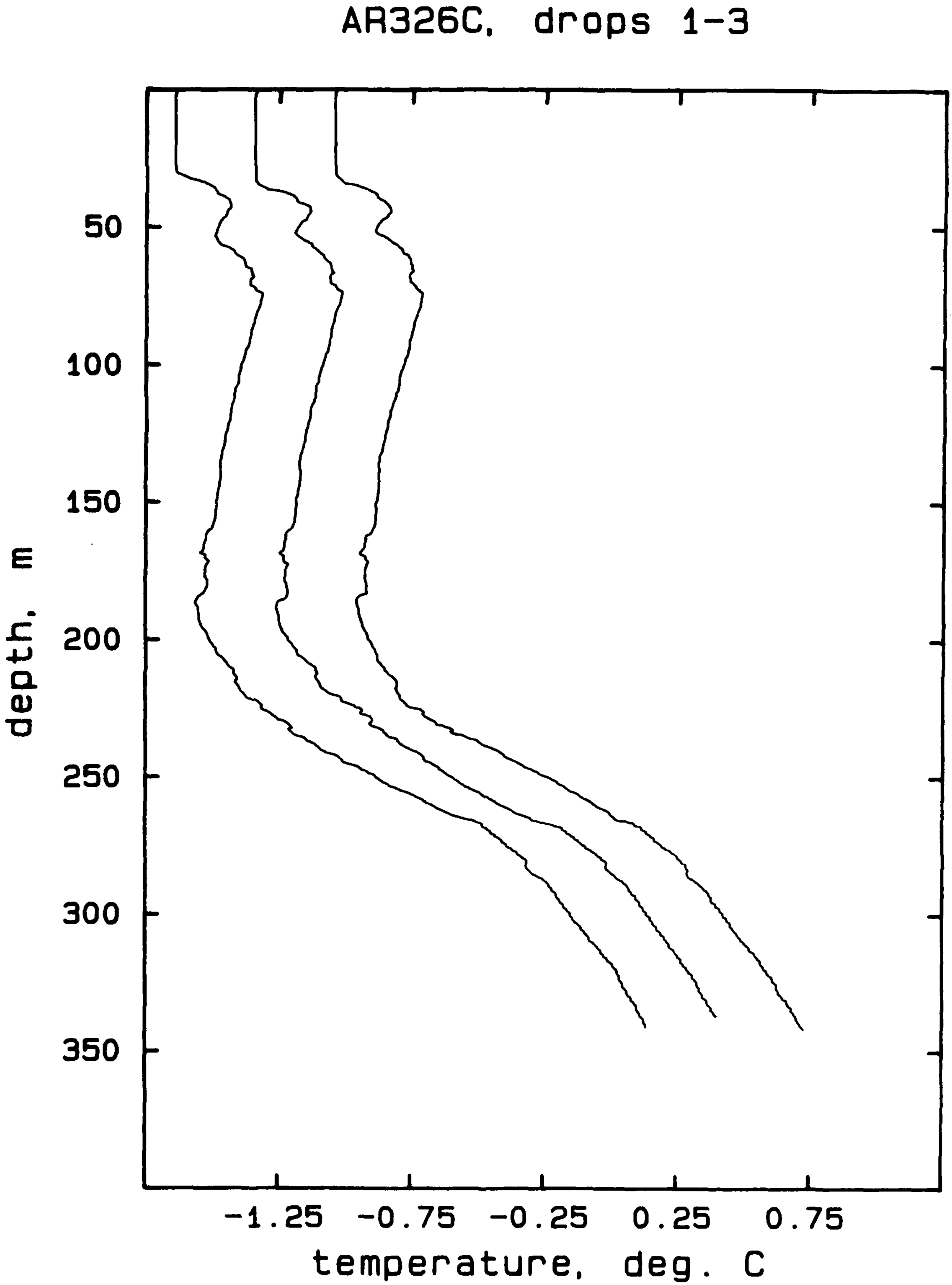
AR326A, drops 1, 4-6



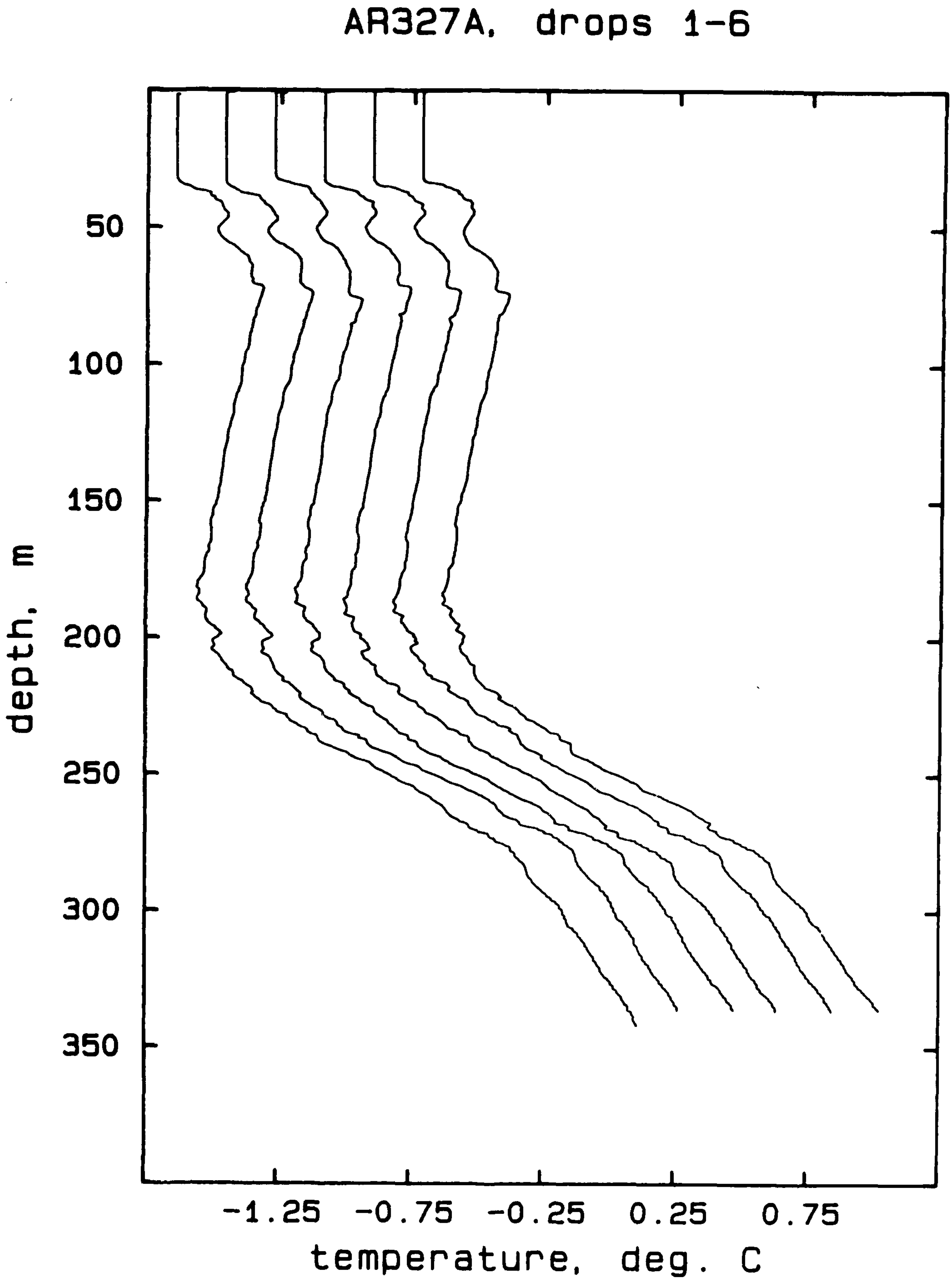

AR326A, drops 1-3
20
40
60
80
100
120
140
160
depth, m
-1.50
-1.30
-1.10
-0.90
temperature, deg. C

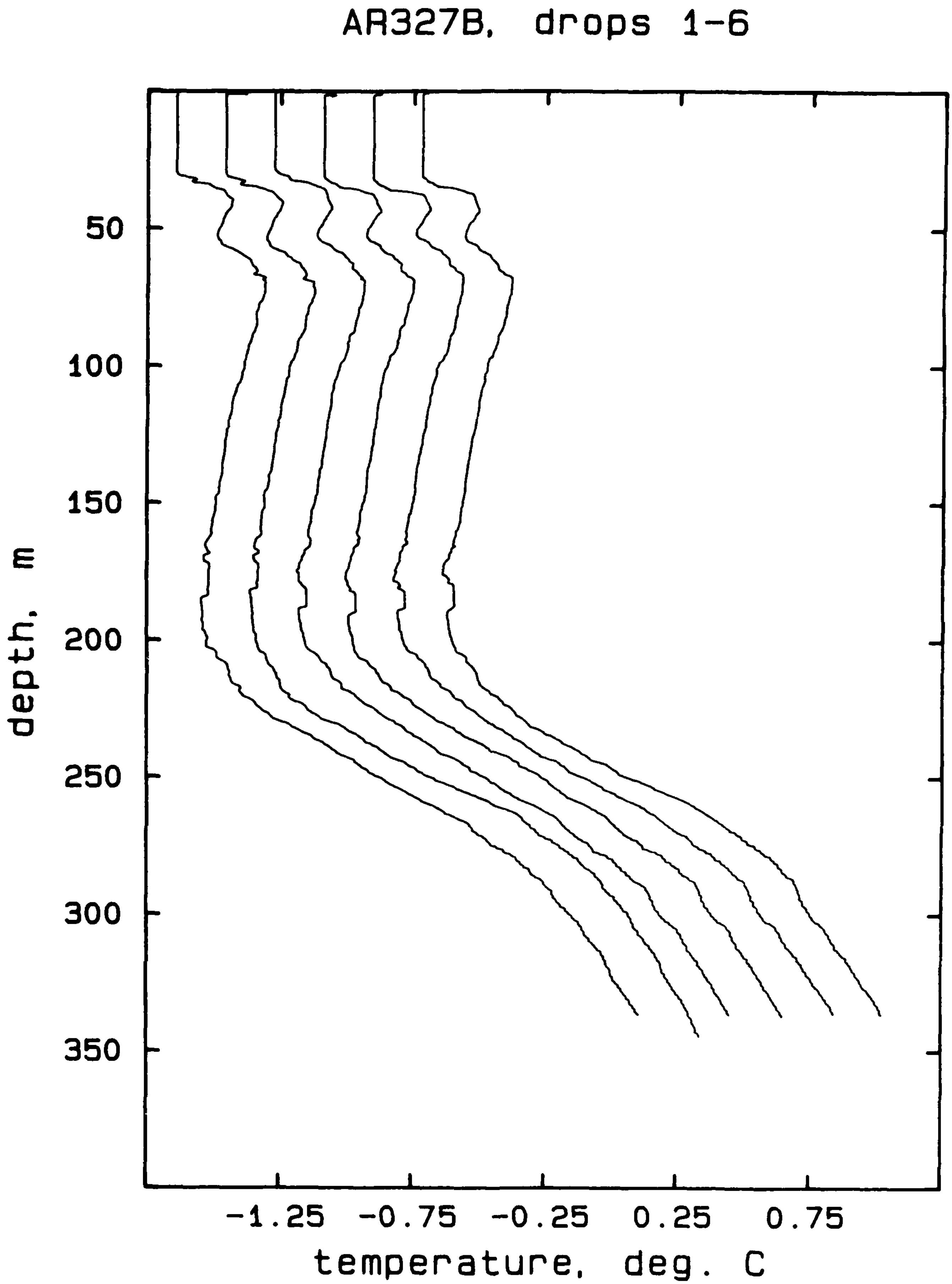

AR326A, drops 4-6
20
40
60
80
100
120
140
160
depth, m
-1.50
-1.30
-1.10
-0.90
temperature, deg. C

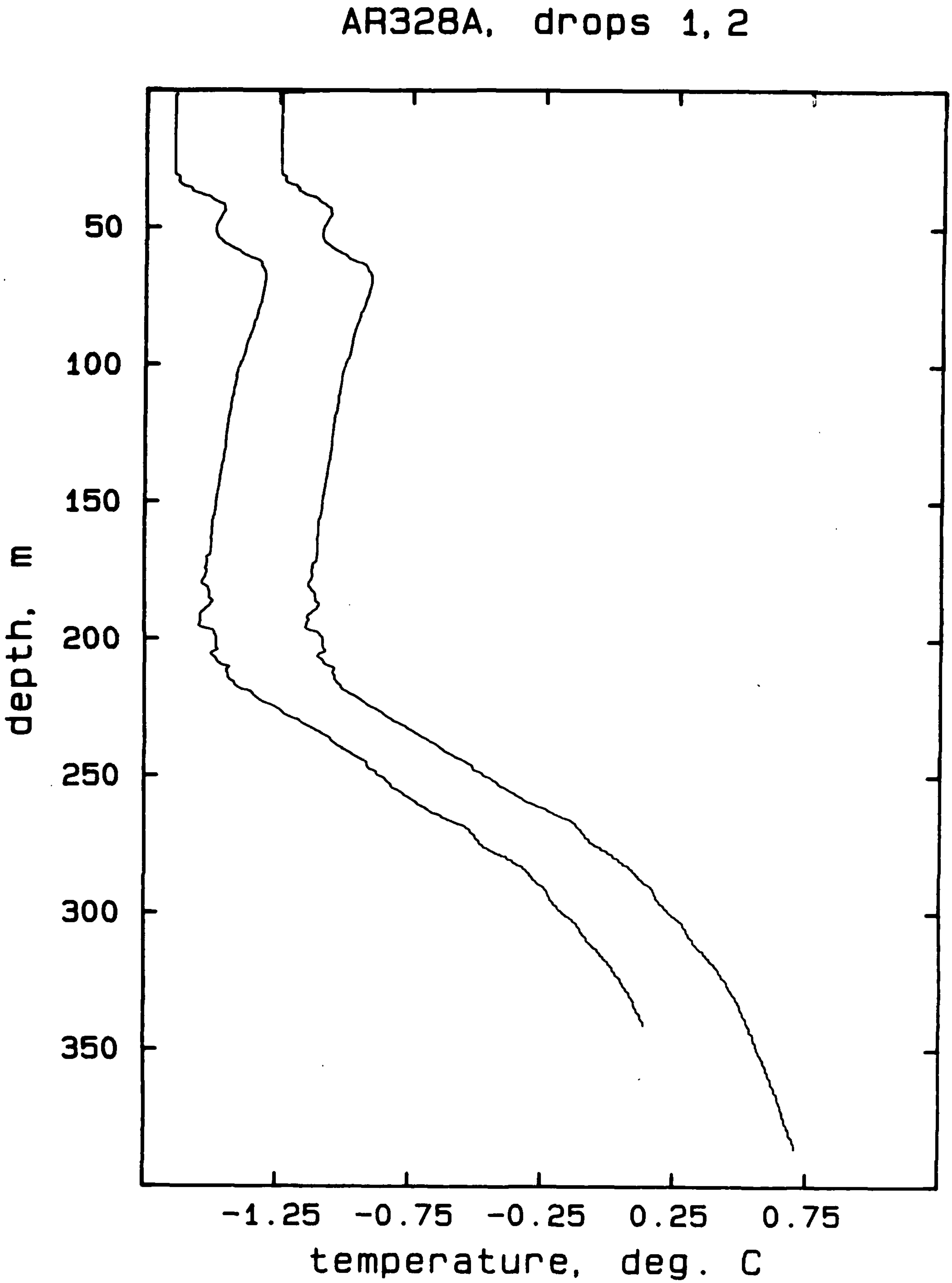

AR326B, drops 1-6
50
100
150
200
250
300
350
depth, m
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C

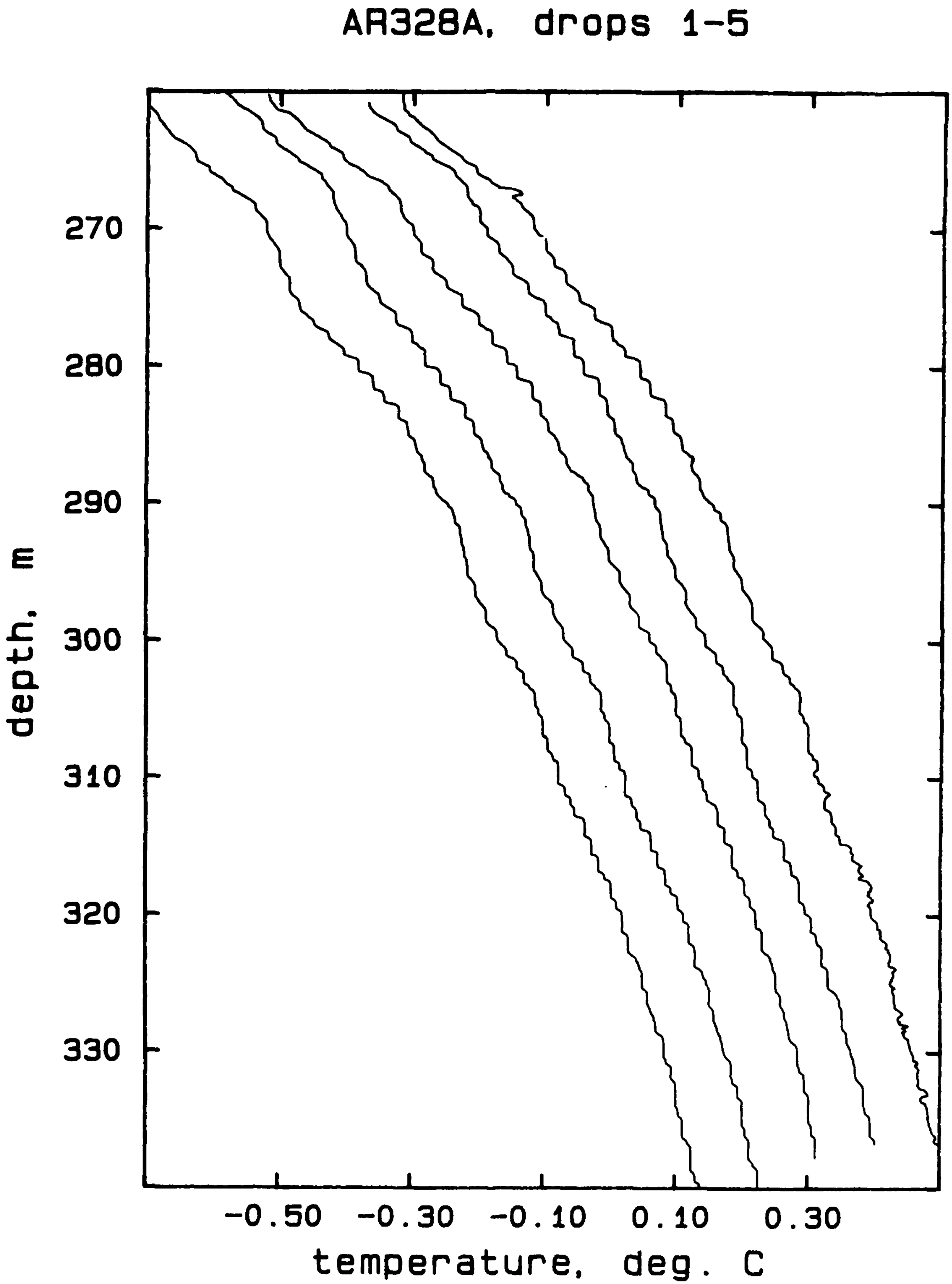


AR326C, drops 1-3
depth, m
50
100
150
200
250
300
350
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C

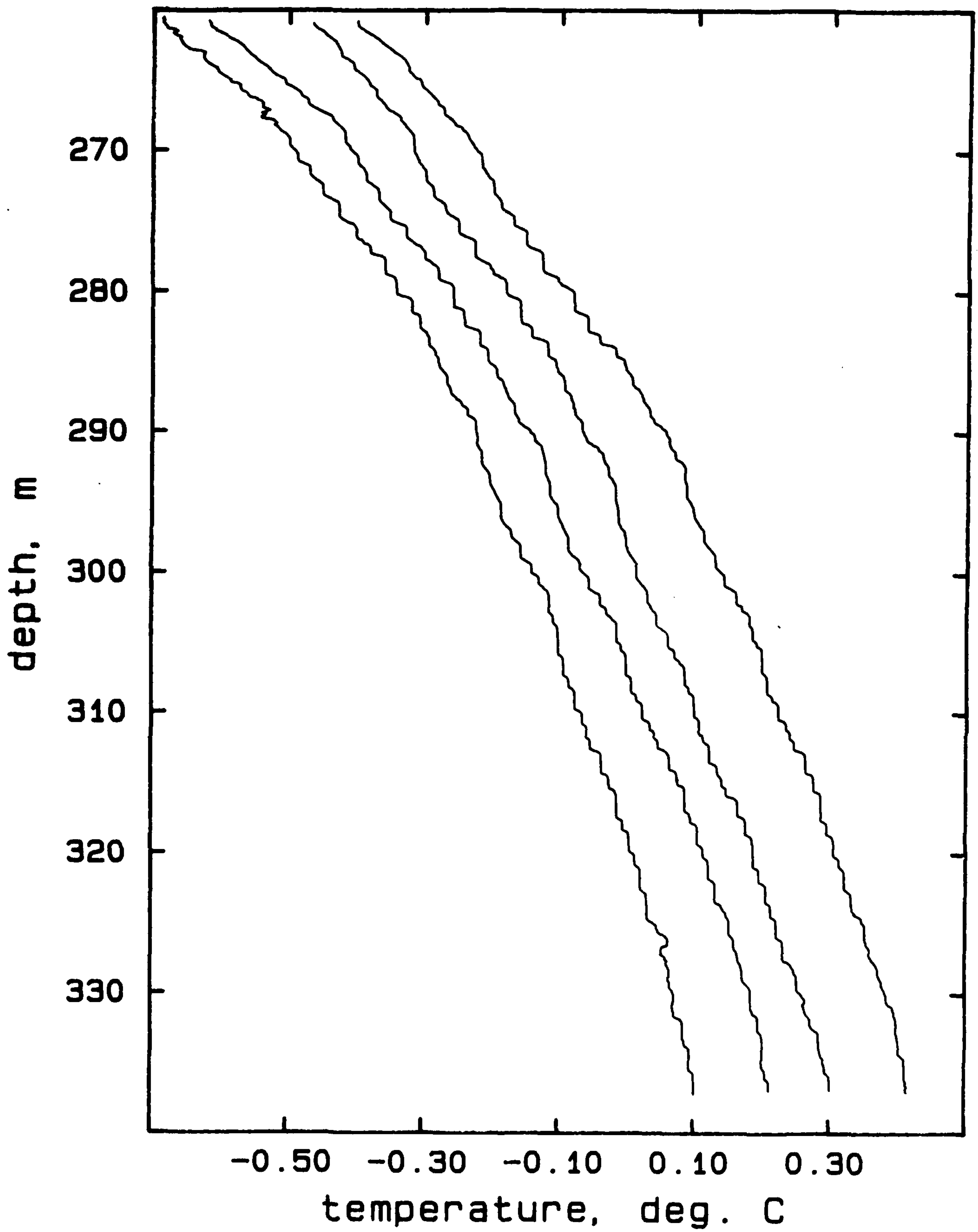

AR327A, drops 1-6
50
100
150
200
250
300
350
depth, m
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C

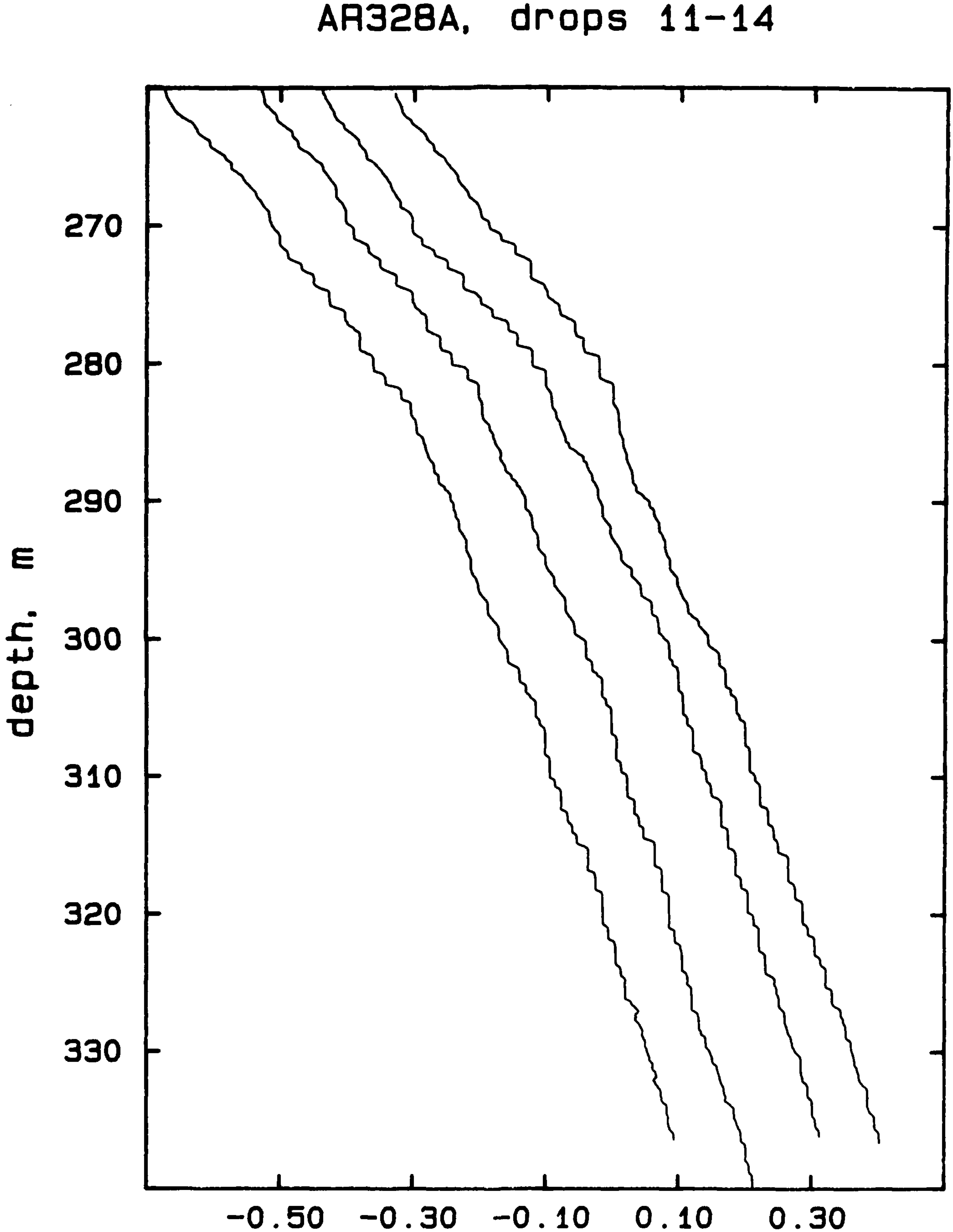

AR327B, drops 1-6
50
100
150
200
250
300
350
depth, m
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C

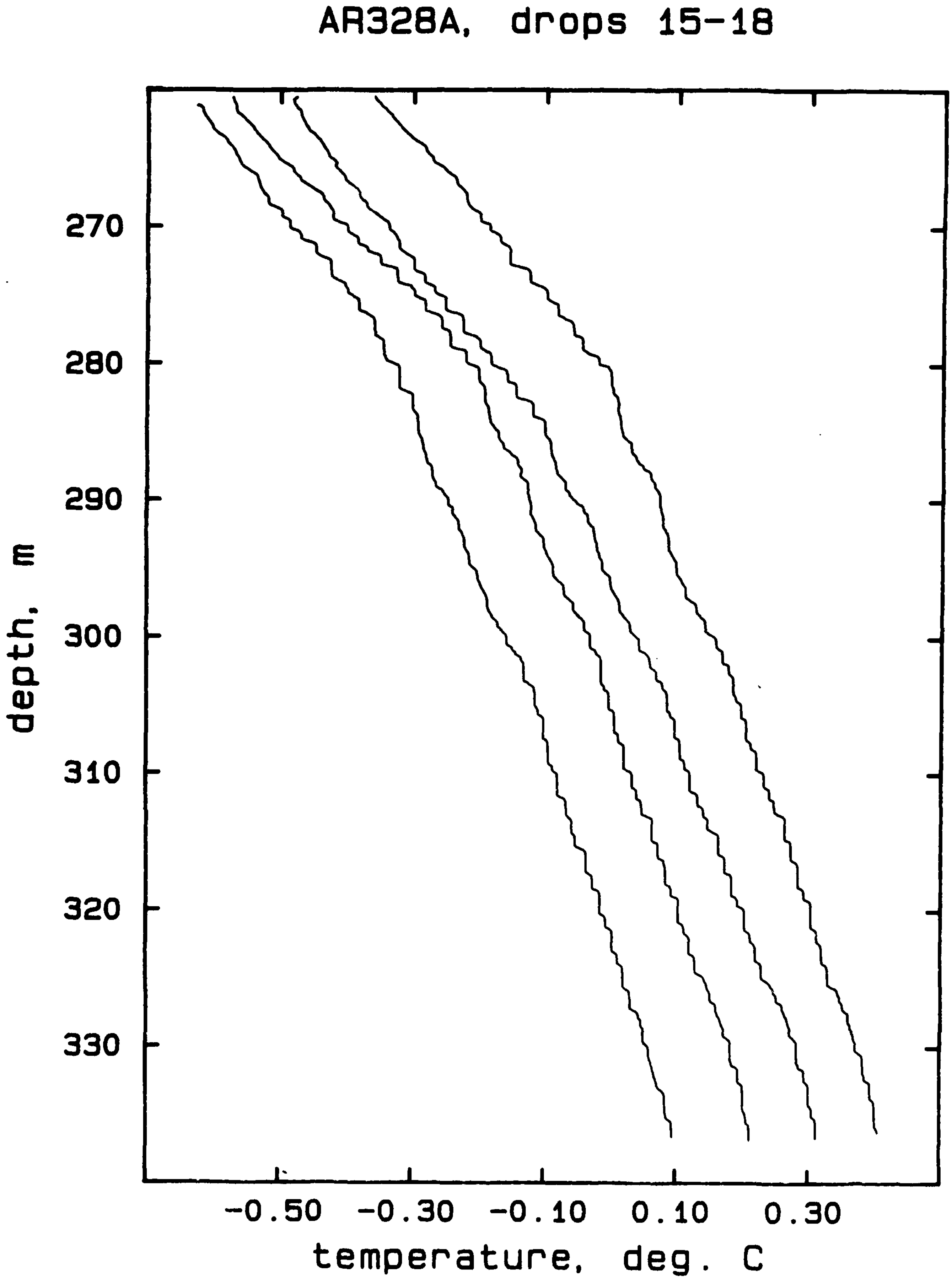

AR328A, drops 1, 2
50
100
150
200
250
300
350
depth, m
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C

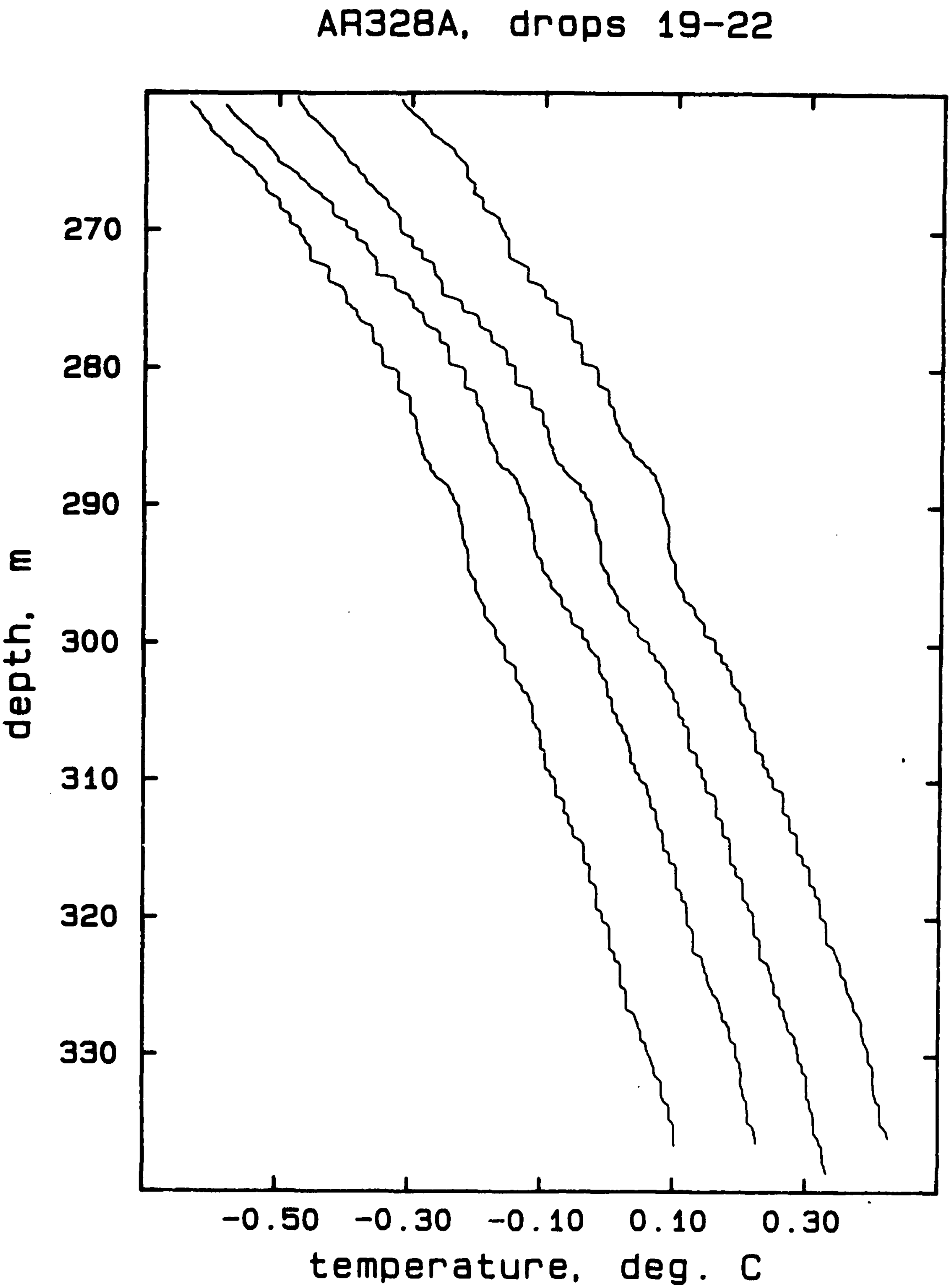

AR328A, drops 1-5
270
280
290
300
310
320
330
depth, m
-0.50
-0.30
-0.10
0.10
0.30
temperature, deg. C

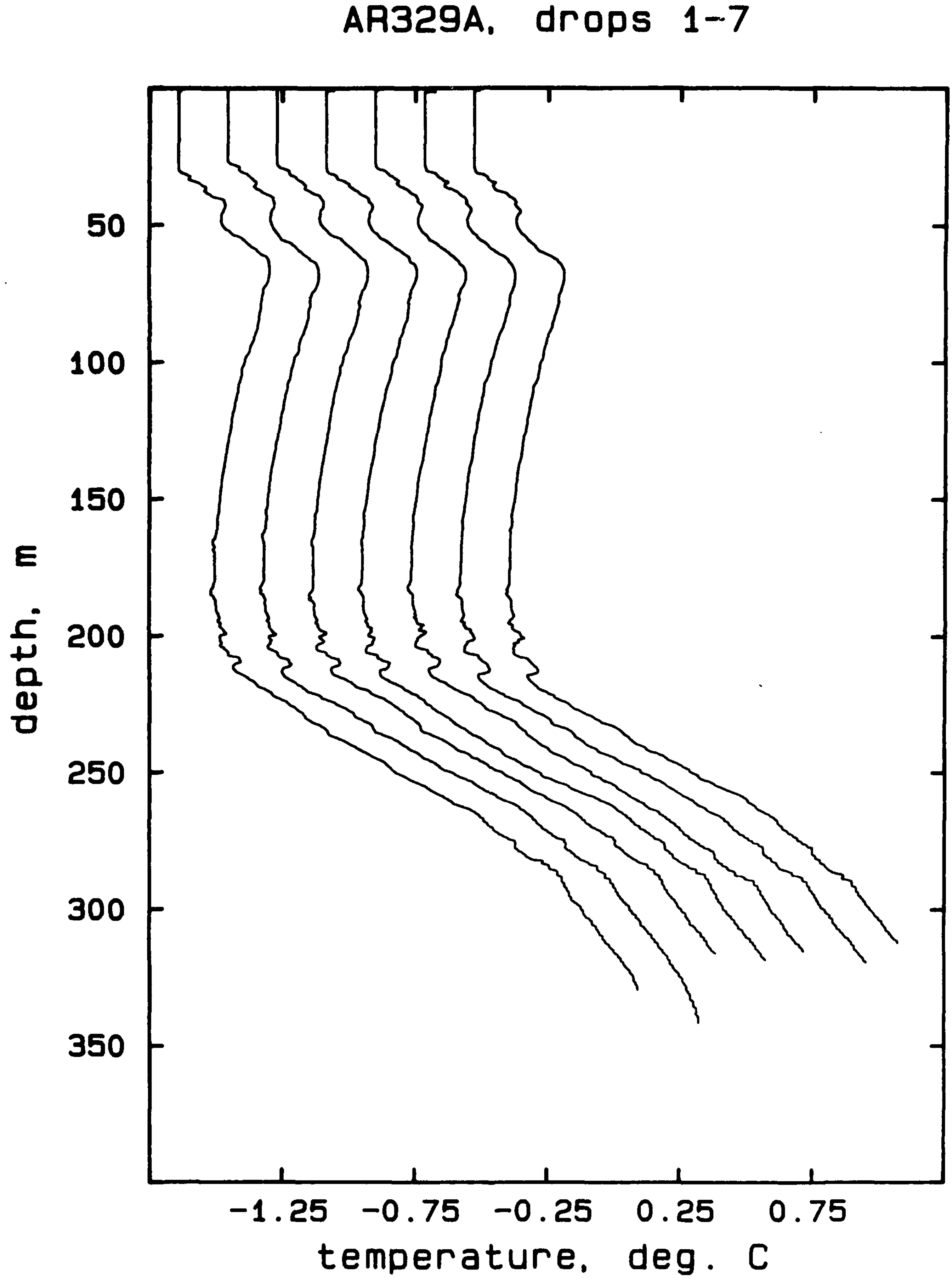
AR328A, drops 6, 8-10

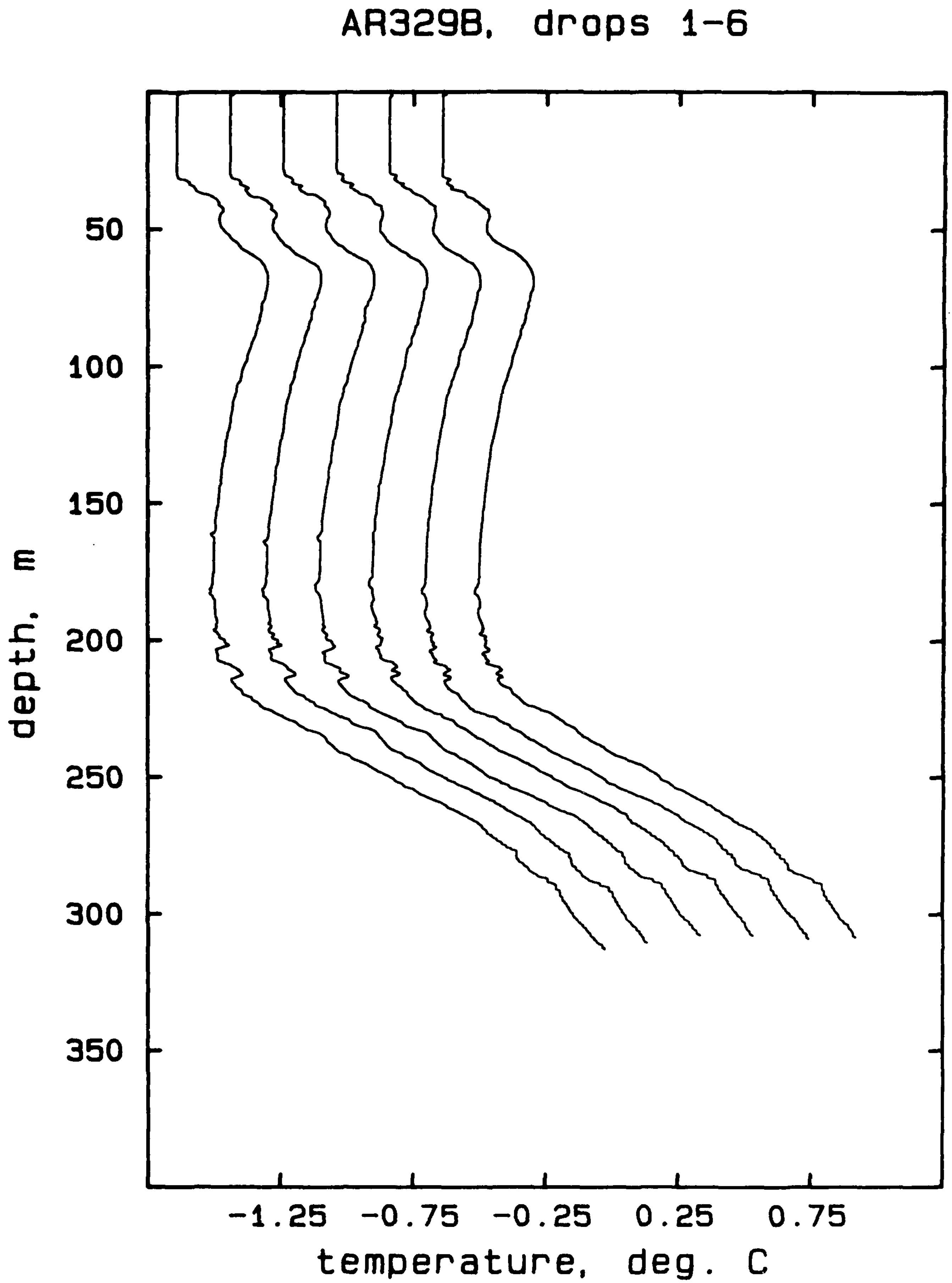


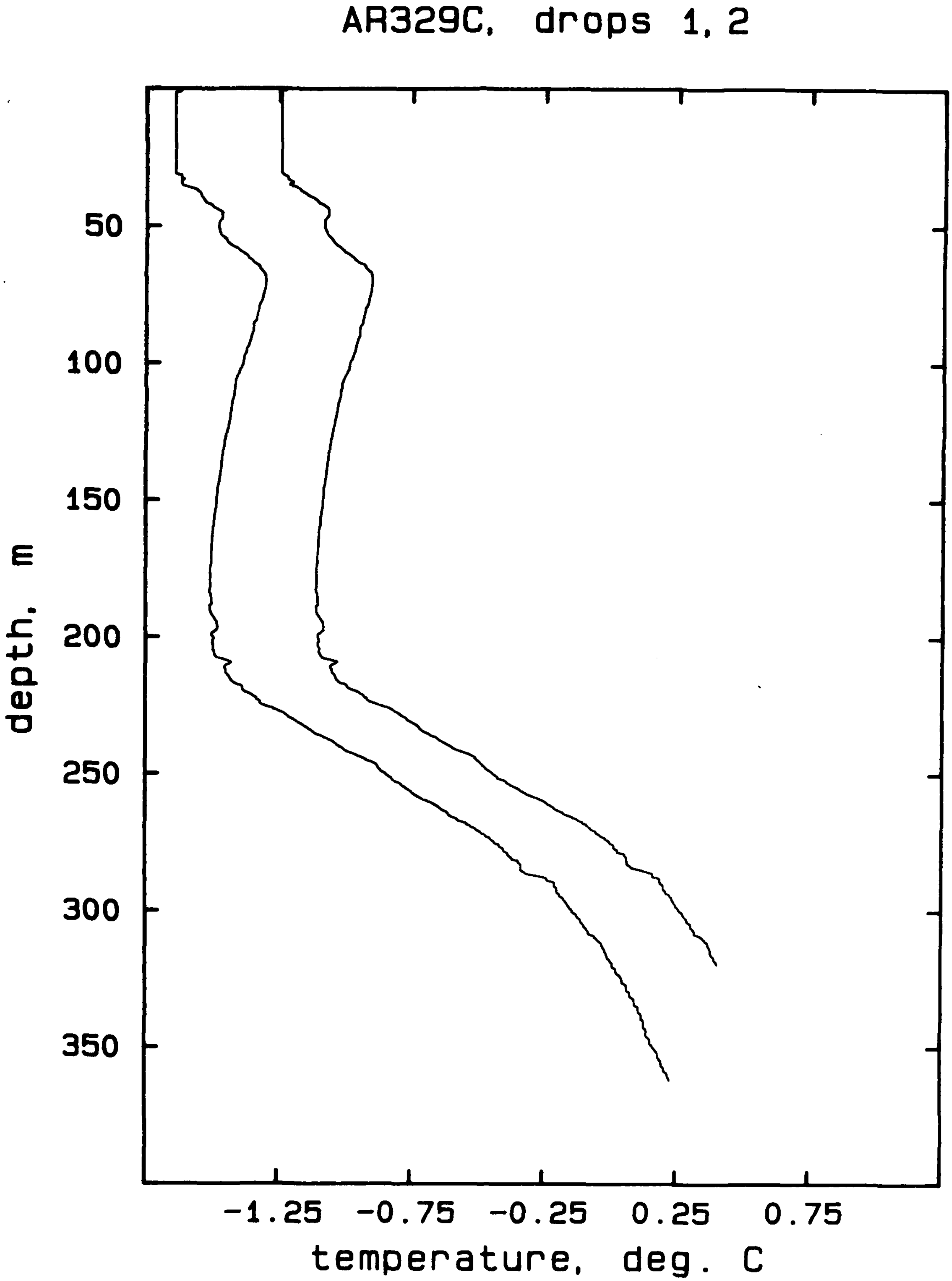

AR328A, drops 11-14
270
280
290
300
310
320
330
depth, m
-0.50
-0.30
-0.10
0.10
0.30
temperature, deg. C

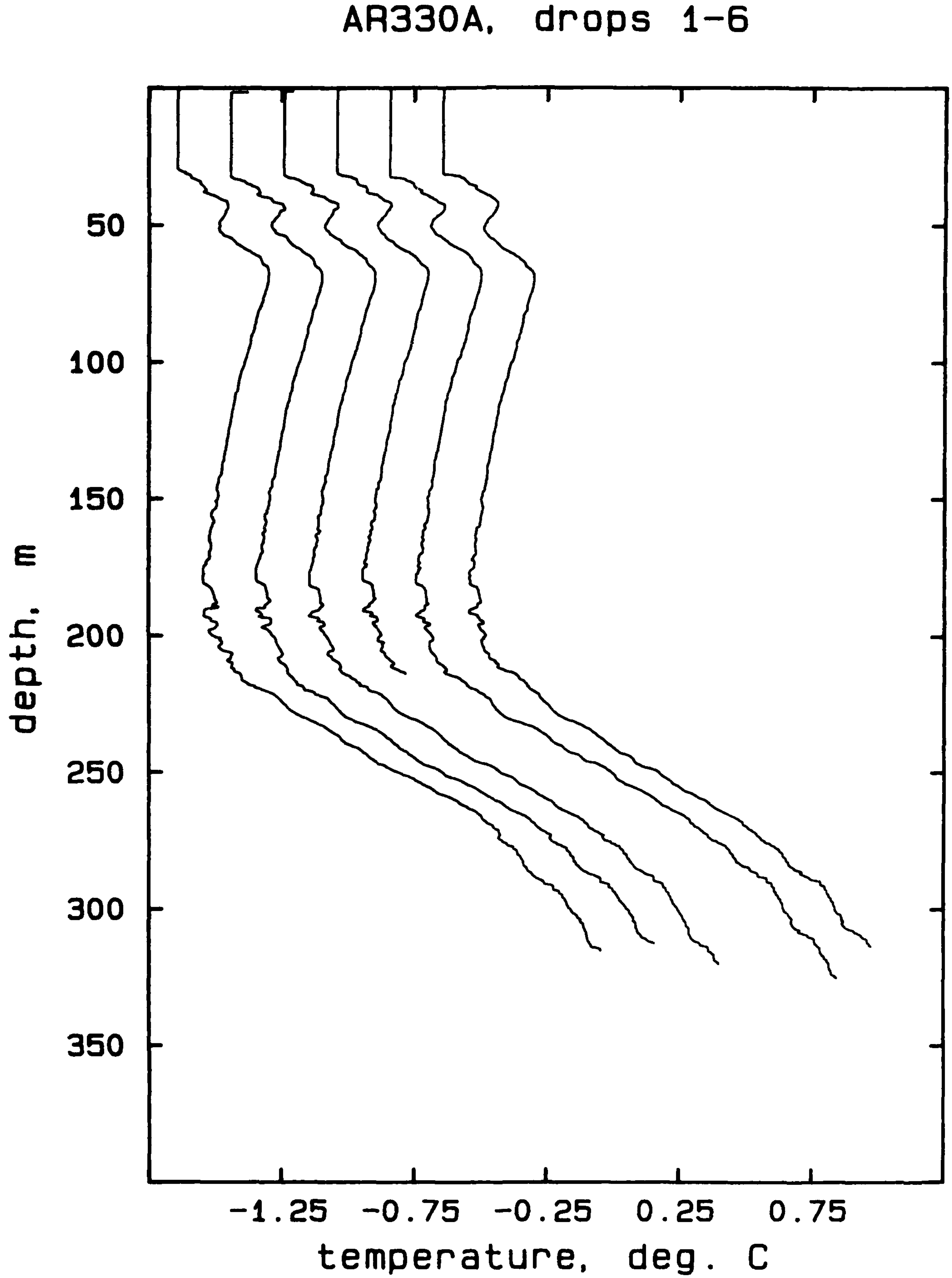

AR328A, drops 15-18
270
280
290
300
310
320
330
depth, m
-0.50
-0.30
-0.10
0.10
0.30
temperature, deg. C

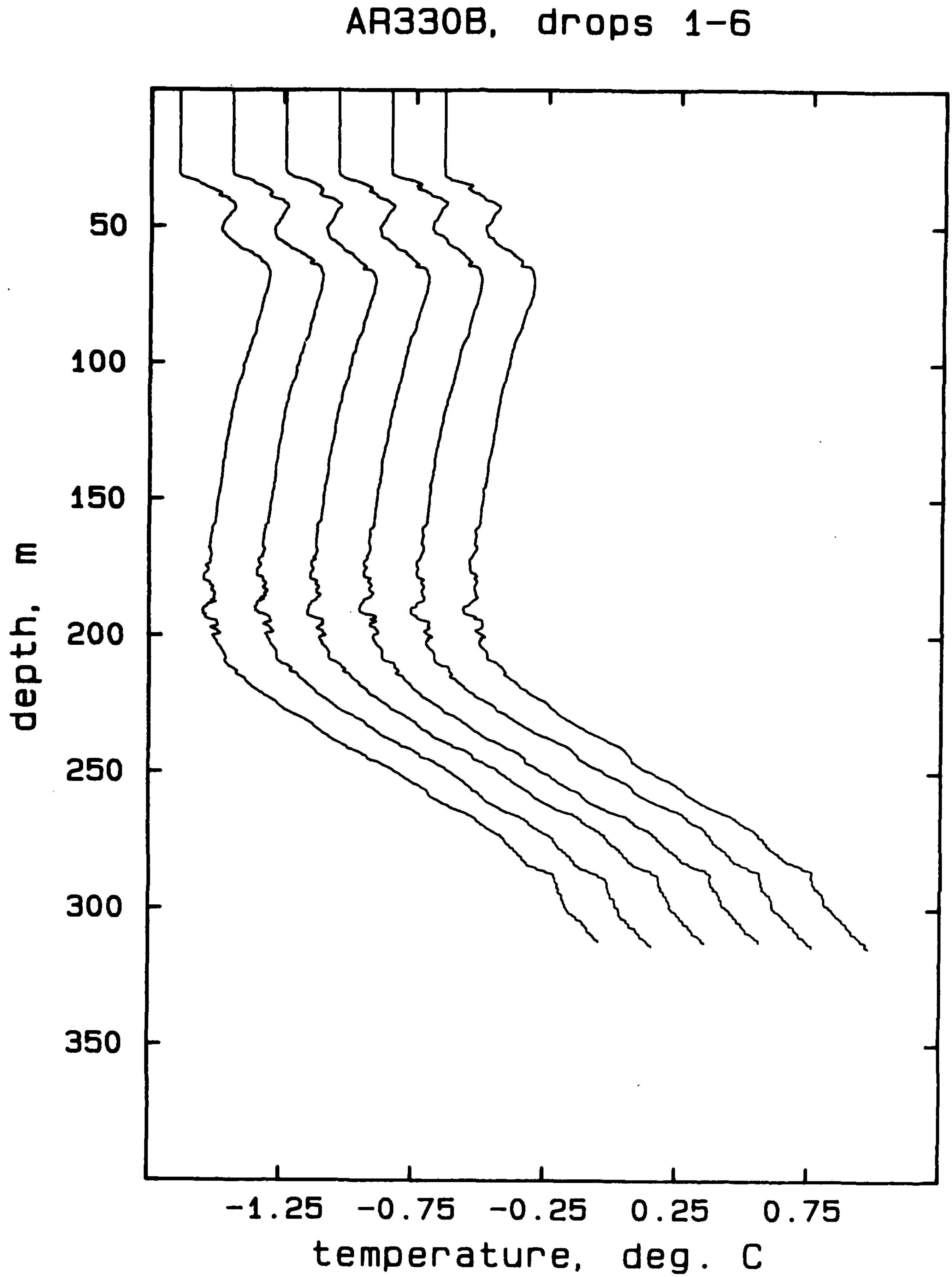

AR328A, drops 19-22
270
280
290
300
310
320
330
depth, m
-0.50
-0.30
-0.10
0.10
0.30
temperature, deg. C

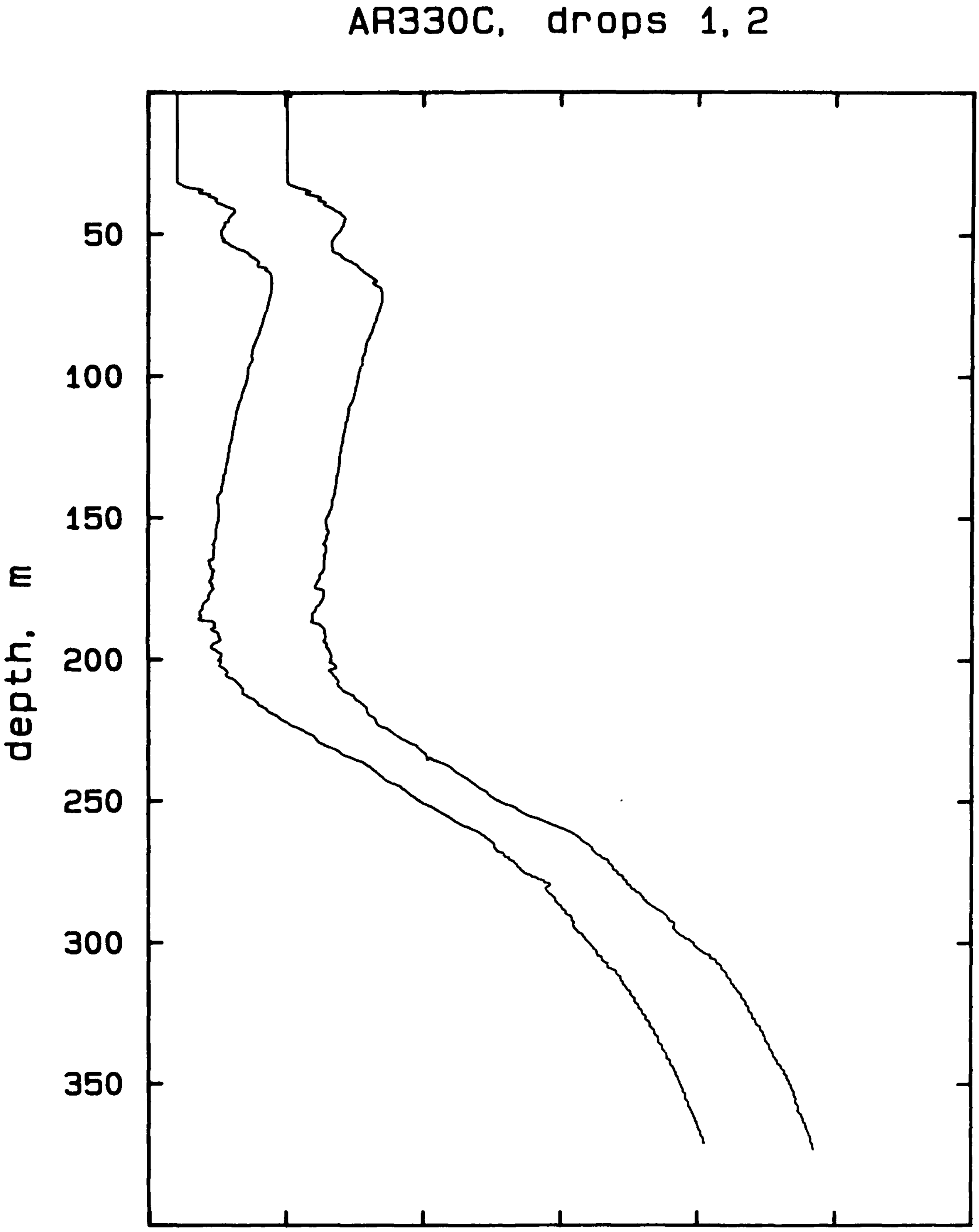

AR329A, drops 1-7
depth, m
50
100
150
200
250
300
350
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C

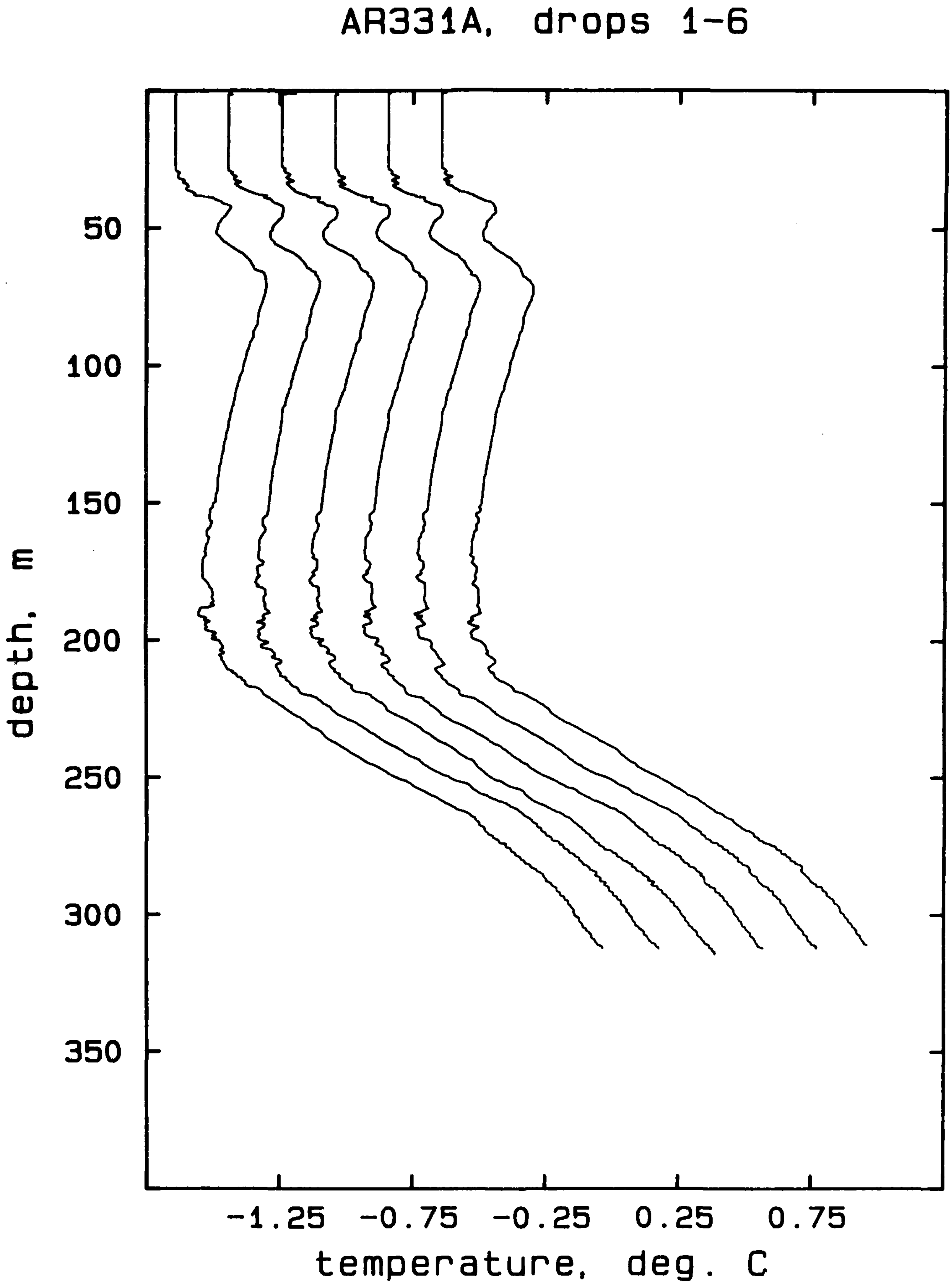

AR329B, drops 1-6
50
100
150
200
250
300
350
depth, m
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C

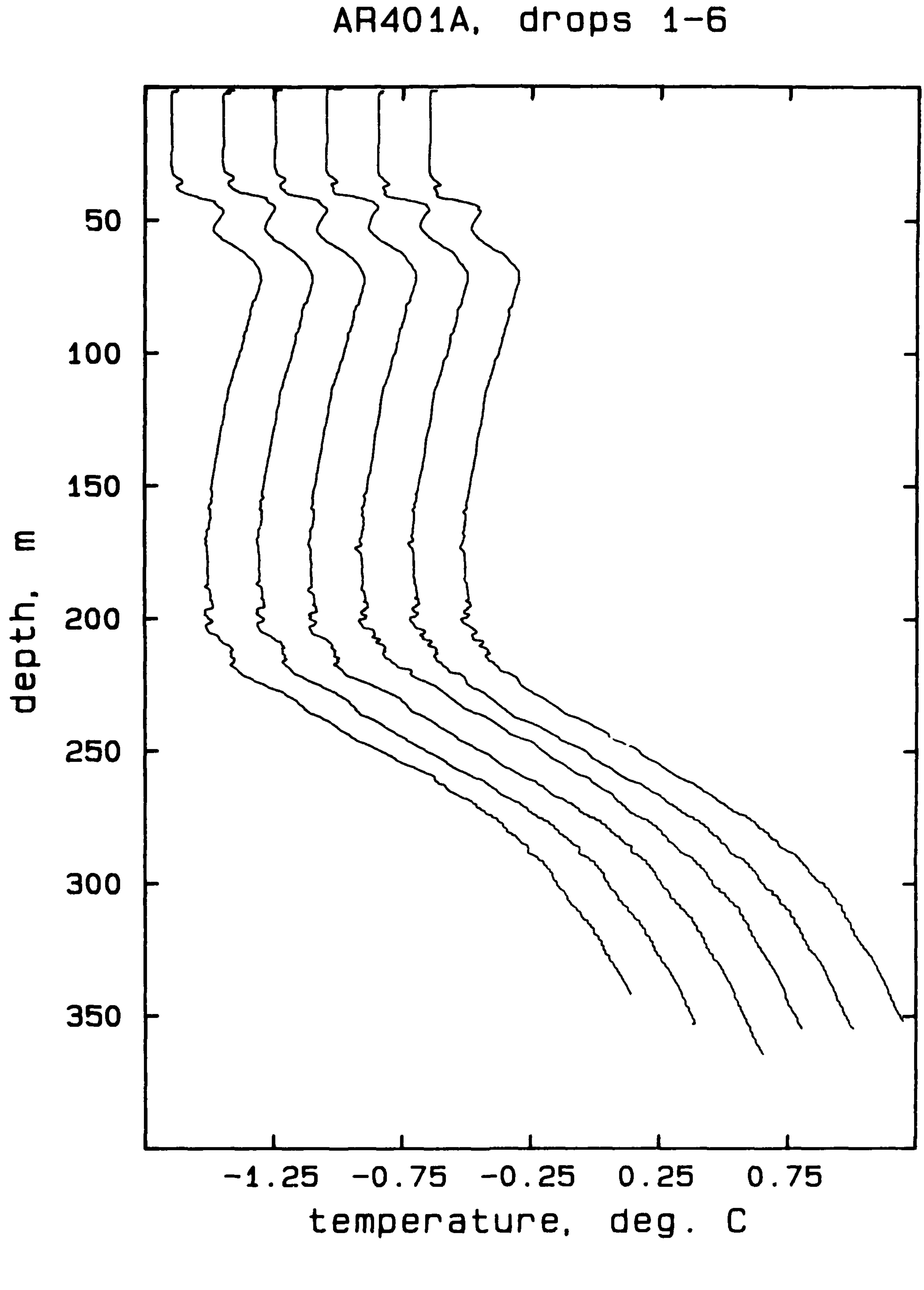

AR329C, drops 1, 2
50
100
150
200
250
300
350
depth, m
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C

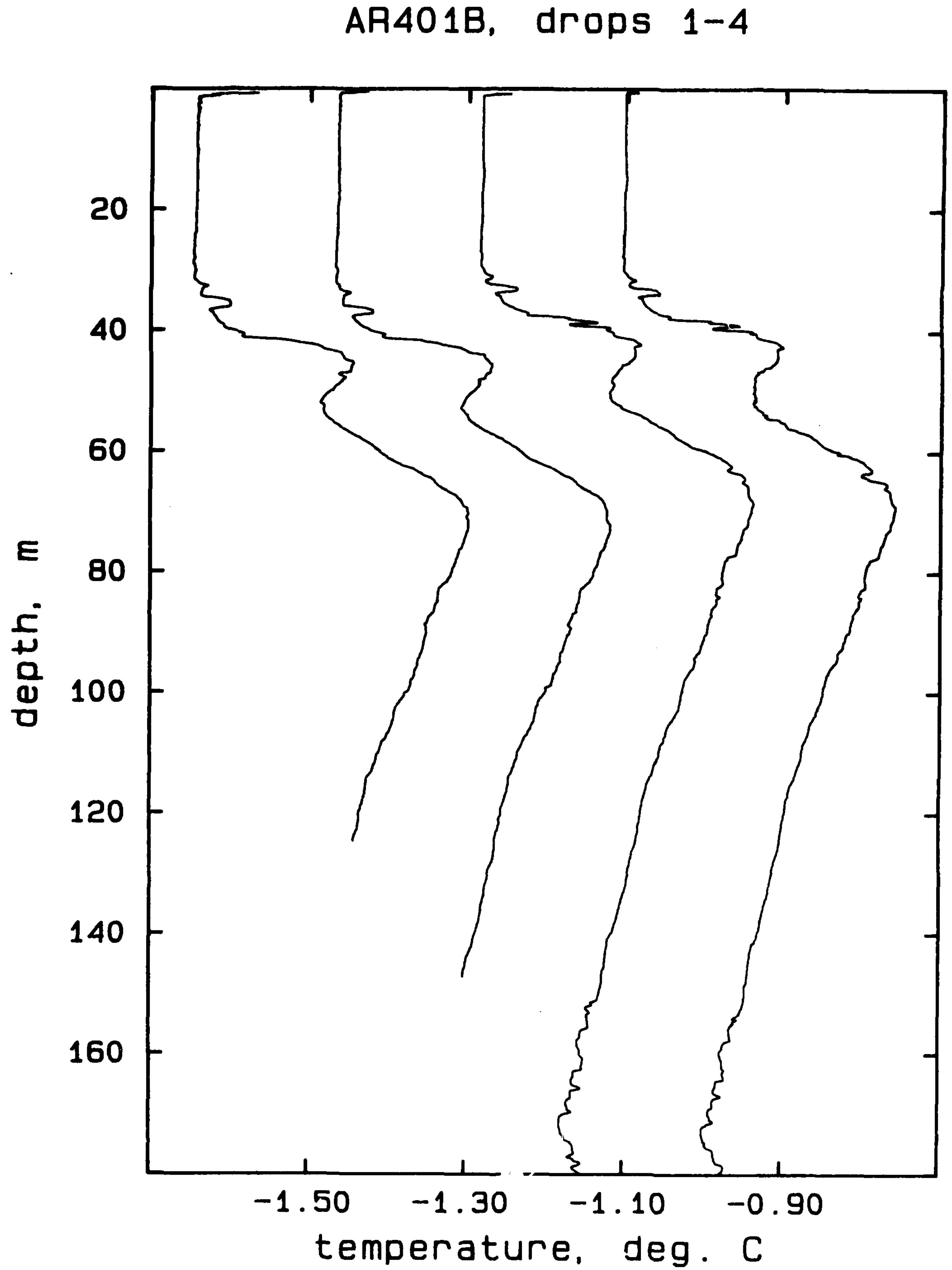

AR330A, drops 1-6
50
100
150
200
250
300
350
depth, m
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C

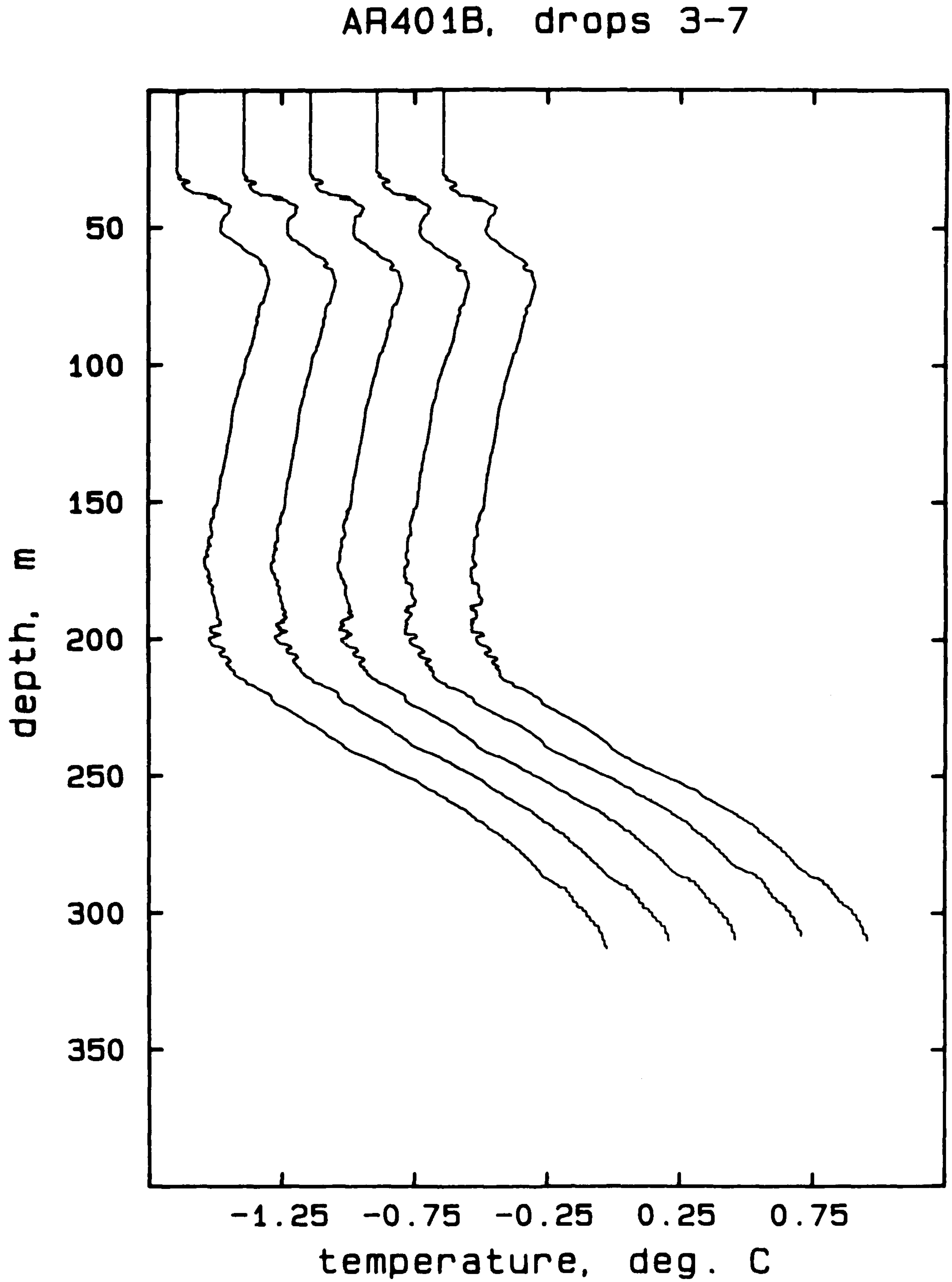

AR330B, drops 1-6
50
100
150
200
250
300
350
depth, m
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C


AR330C, drops 1, 2
50
100
150
200
250
300
350
depth, m
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C

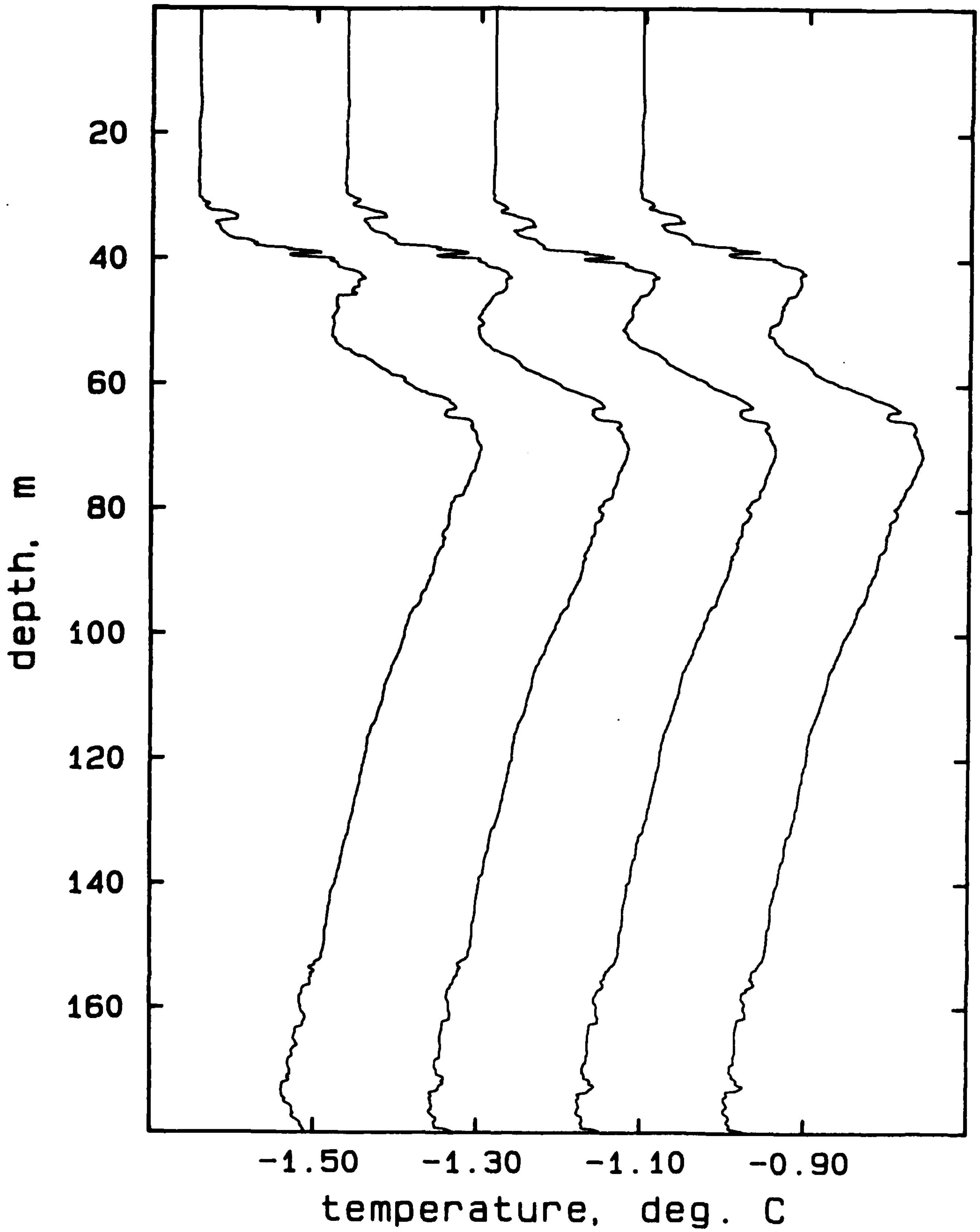

AR331A, drops 1-6
depth, m
50
100
150
200
250
300
350
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C


AR401A, drops 1-6
depth, m
50
100
150
200
250
300
350
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C

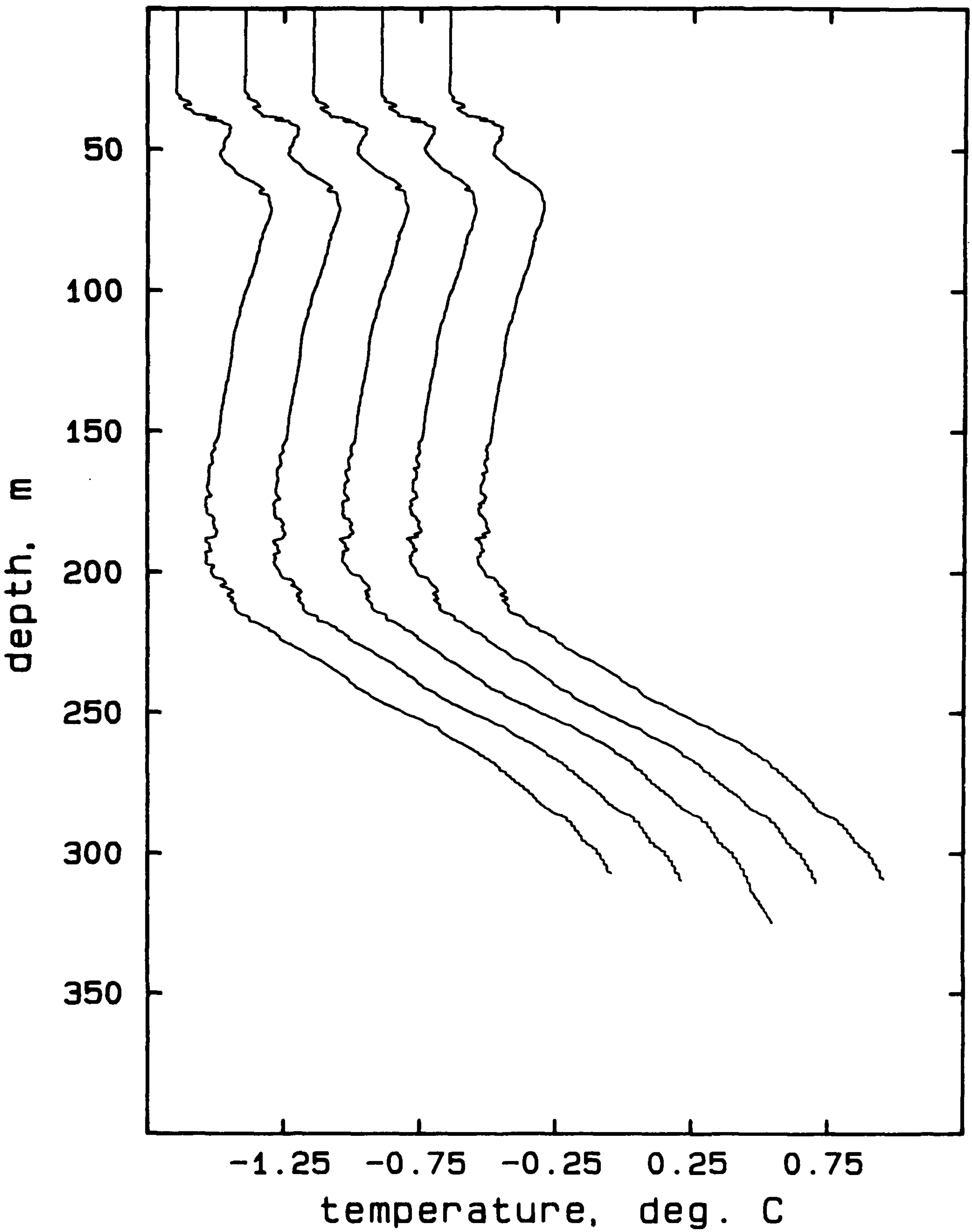

AR401B, drops 1-4
depth, m
20
40
60
80
100
120
140
160
-1.50
-1.30
-1.10
-0.90
temperature, deg. C

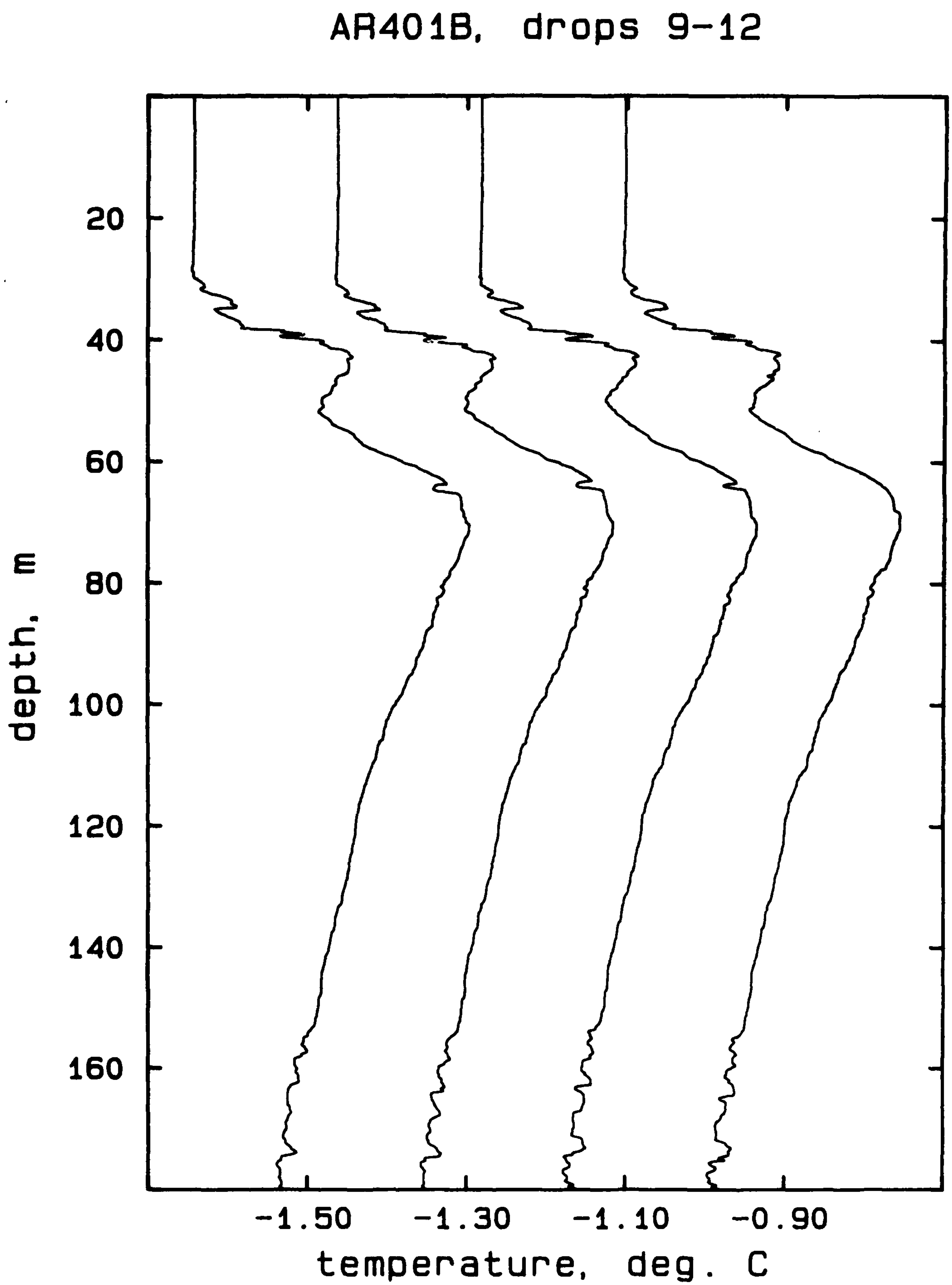

AR401B, drops 3-7
50
100
150
200
250
300
350
depth, m
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C

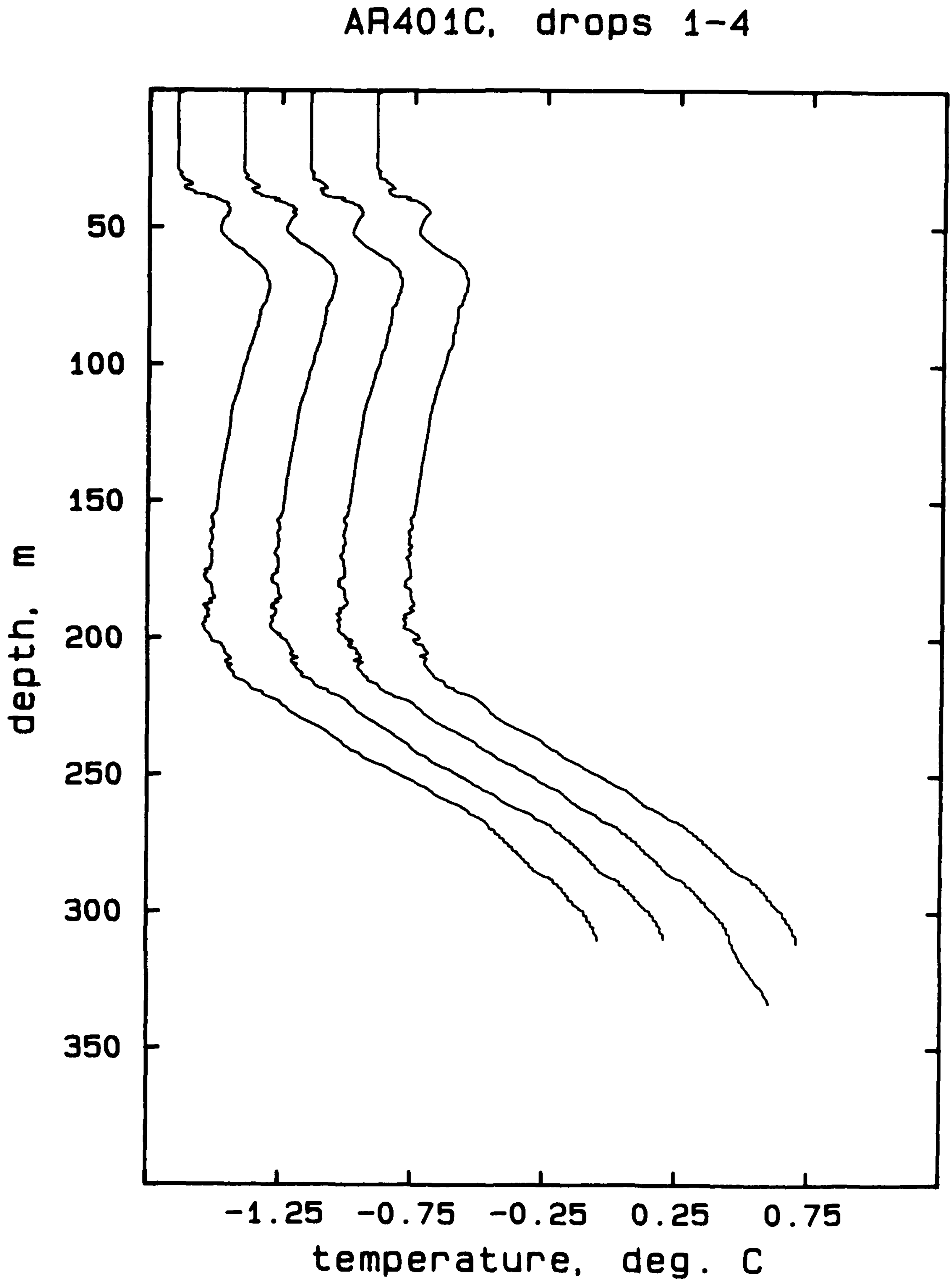
AR401B, drops 5-8

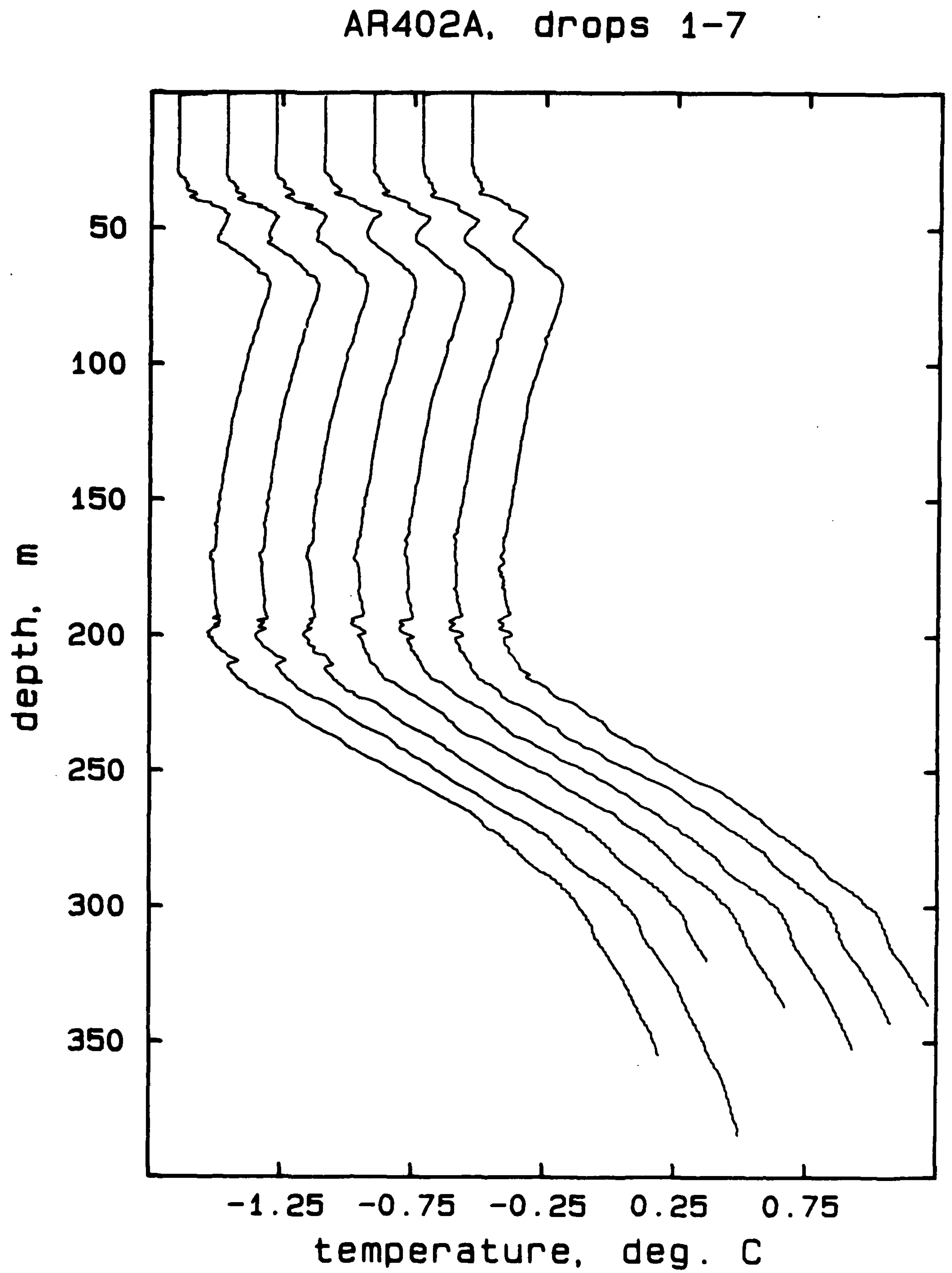


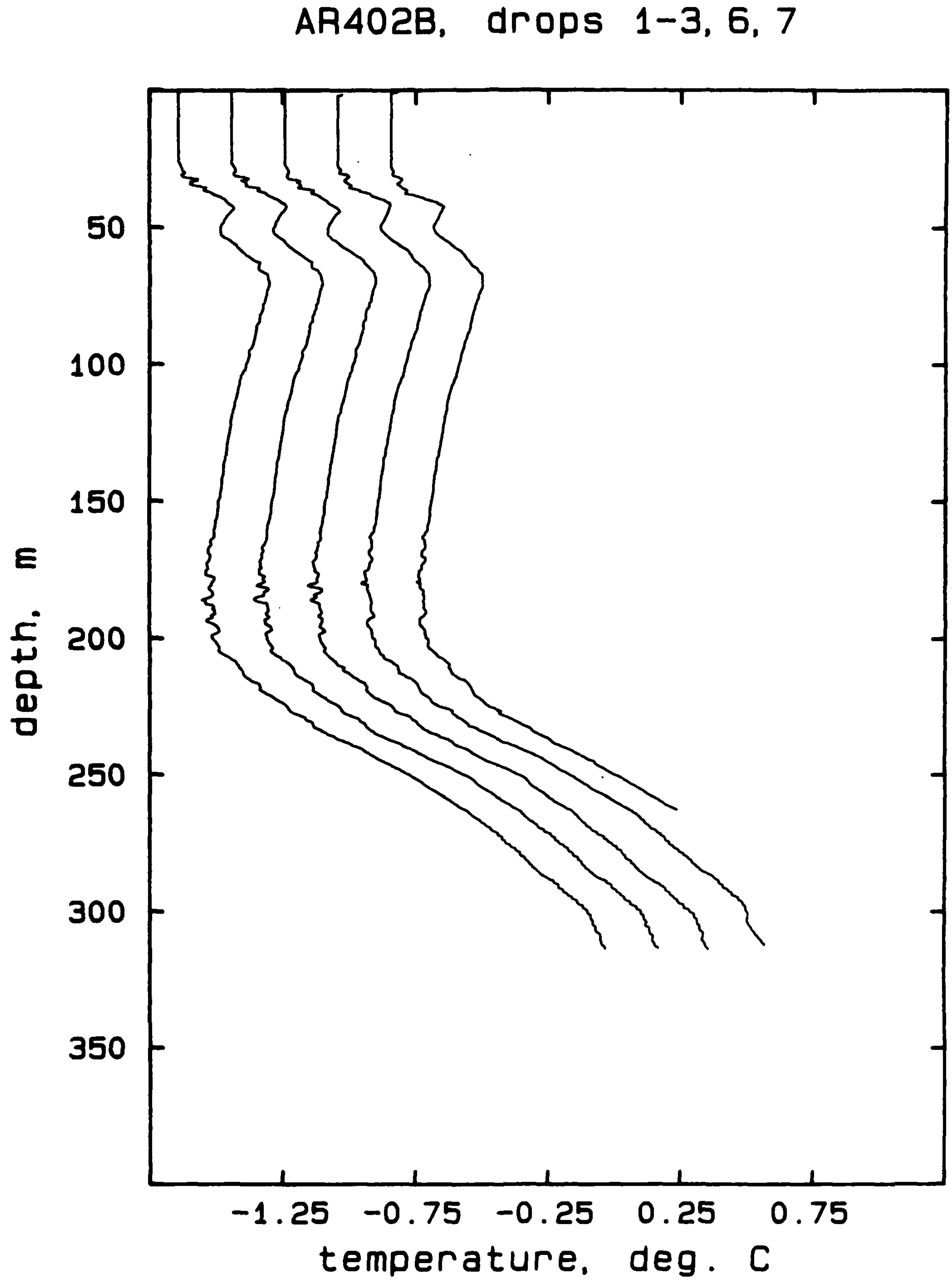
AR401B, drops 8-12

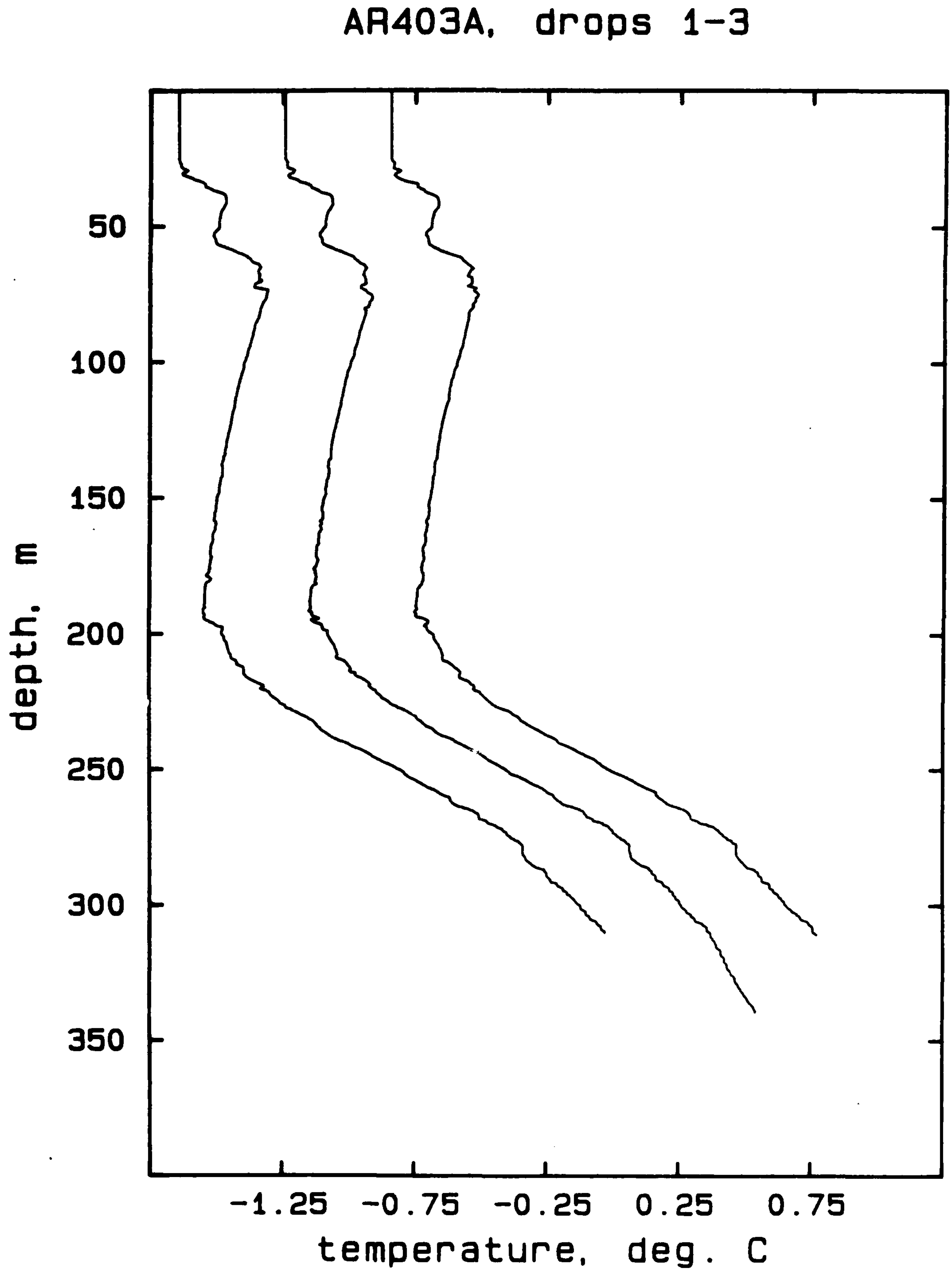


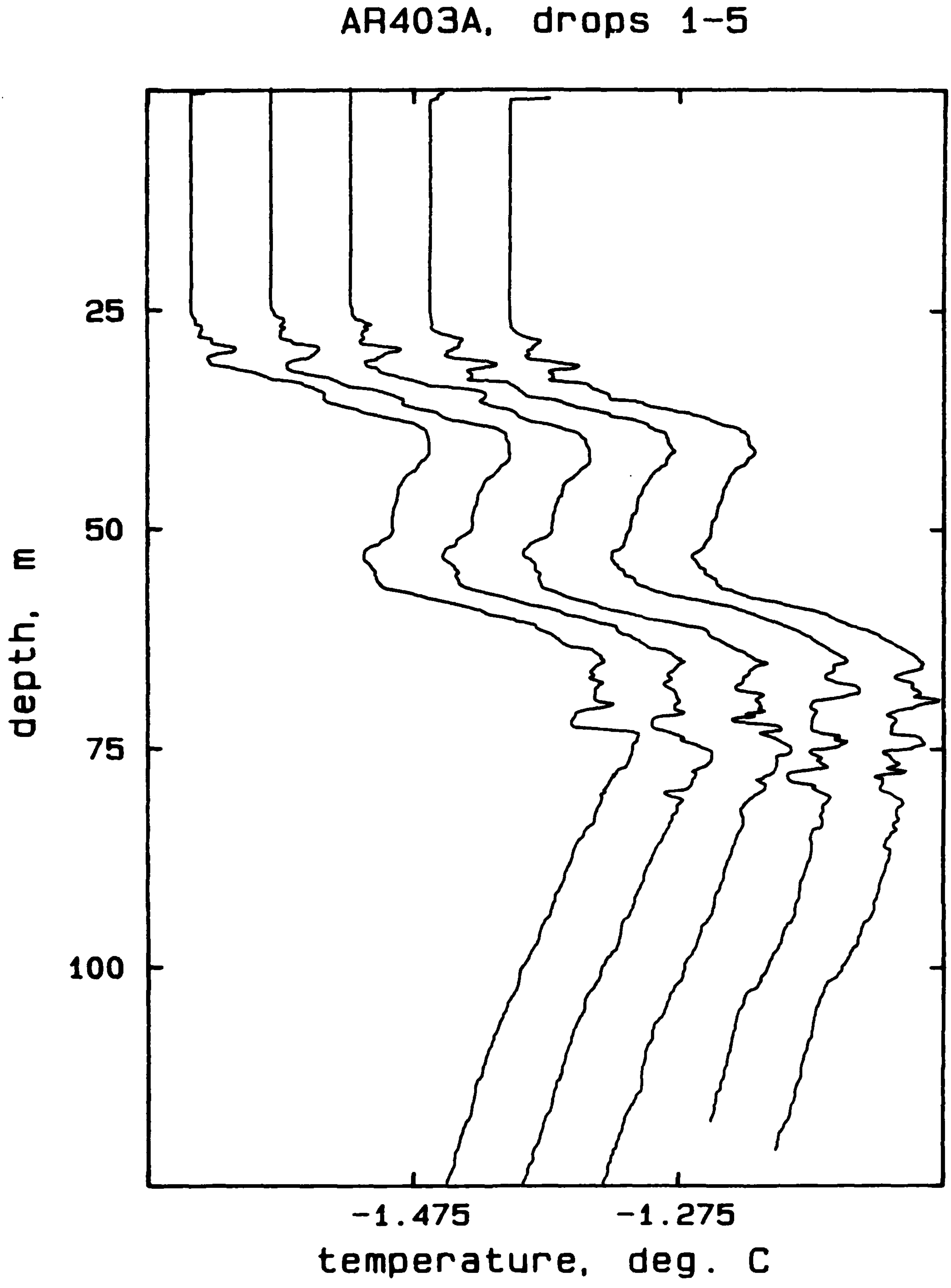

AR401B, drops 9-12
depth, m
20
40
60
80
100
120
140
160
-1.50
-1.30
-1.10
-0.90
temperature, deg. C

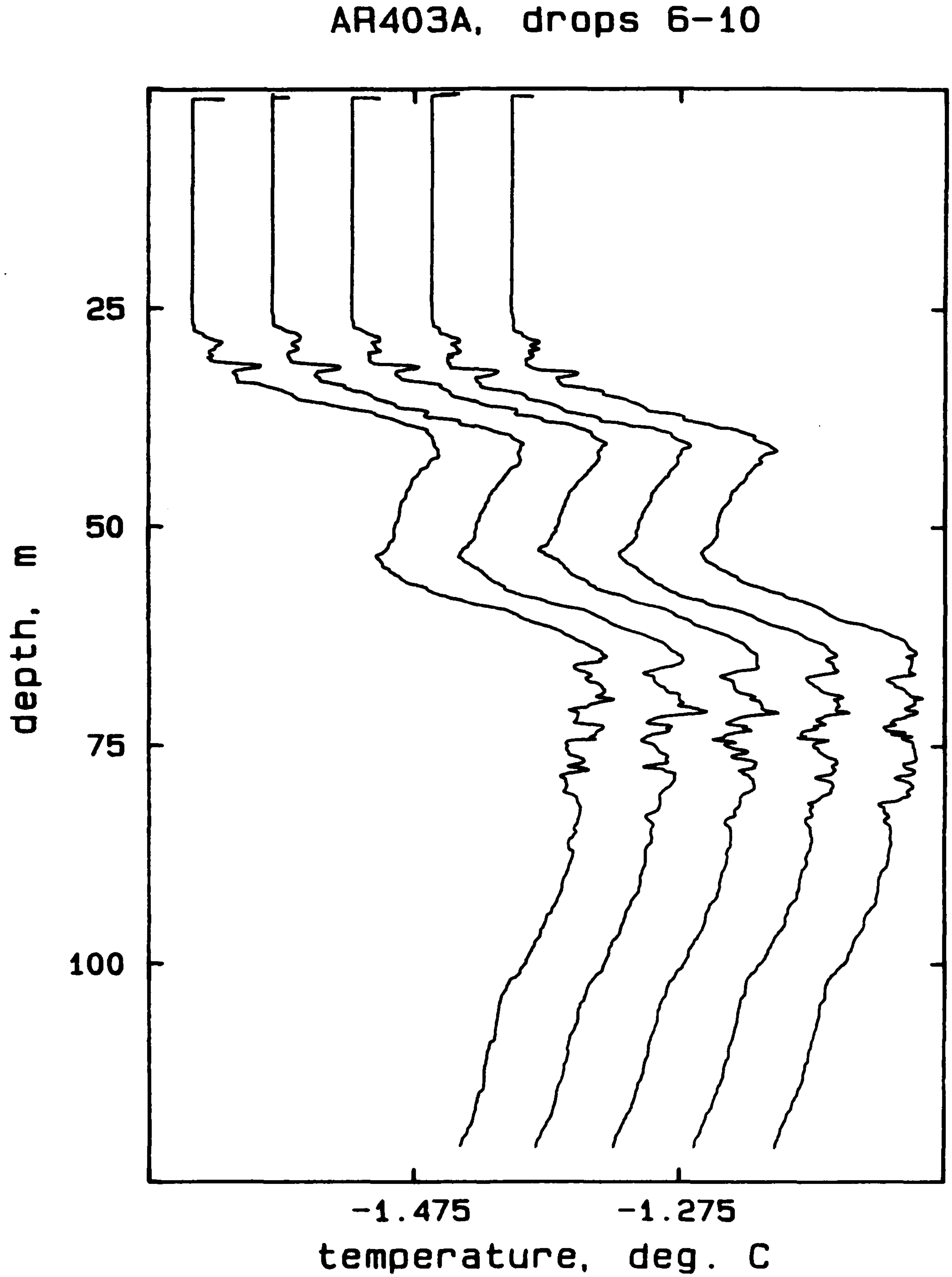

AR401C, drops 1-4
50
100
150
200
250
300
350
depth, m
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C

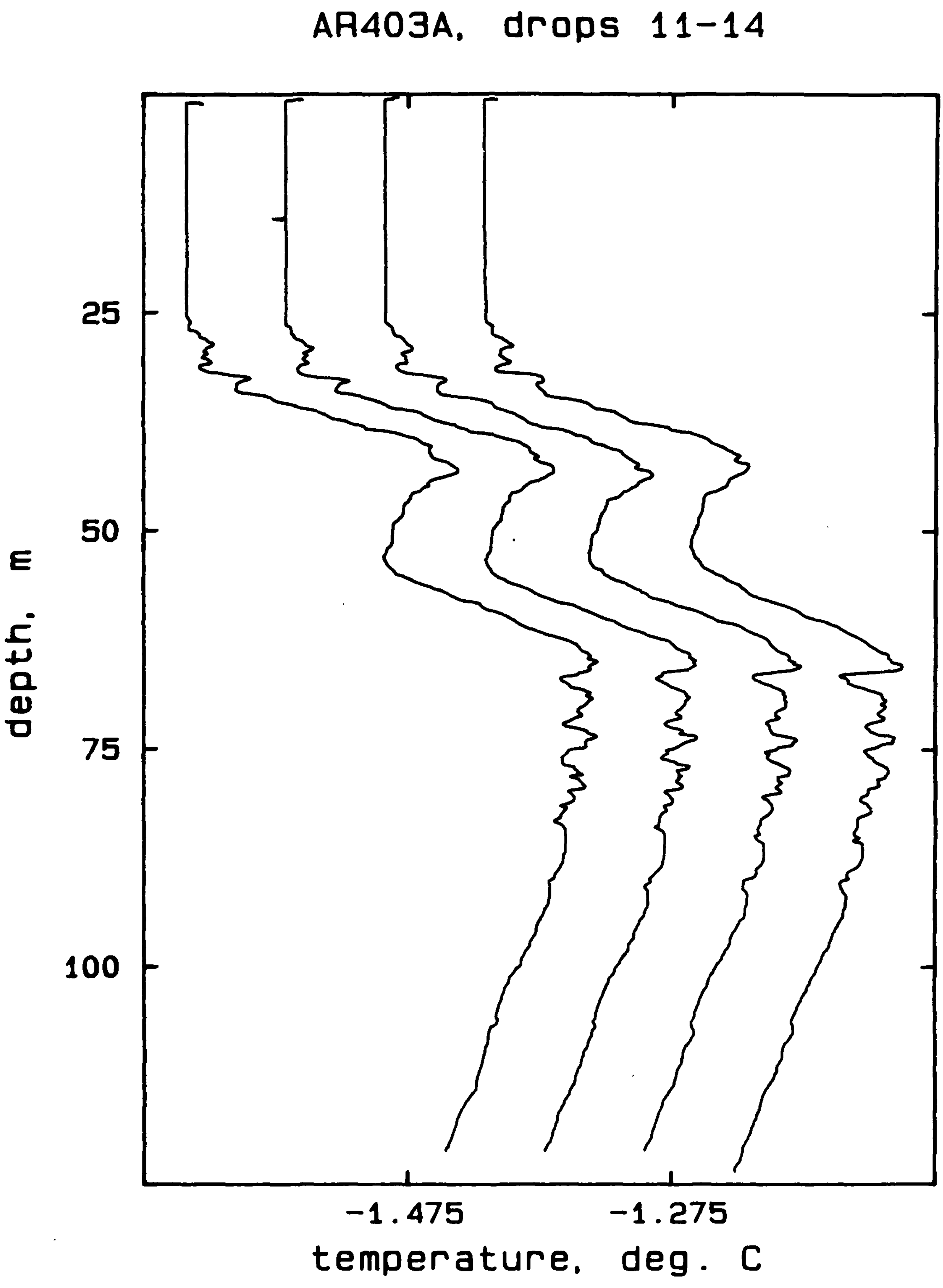

AR402A, drops 1-7
50
100
150
200
250
300
350
depth, m
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C

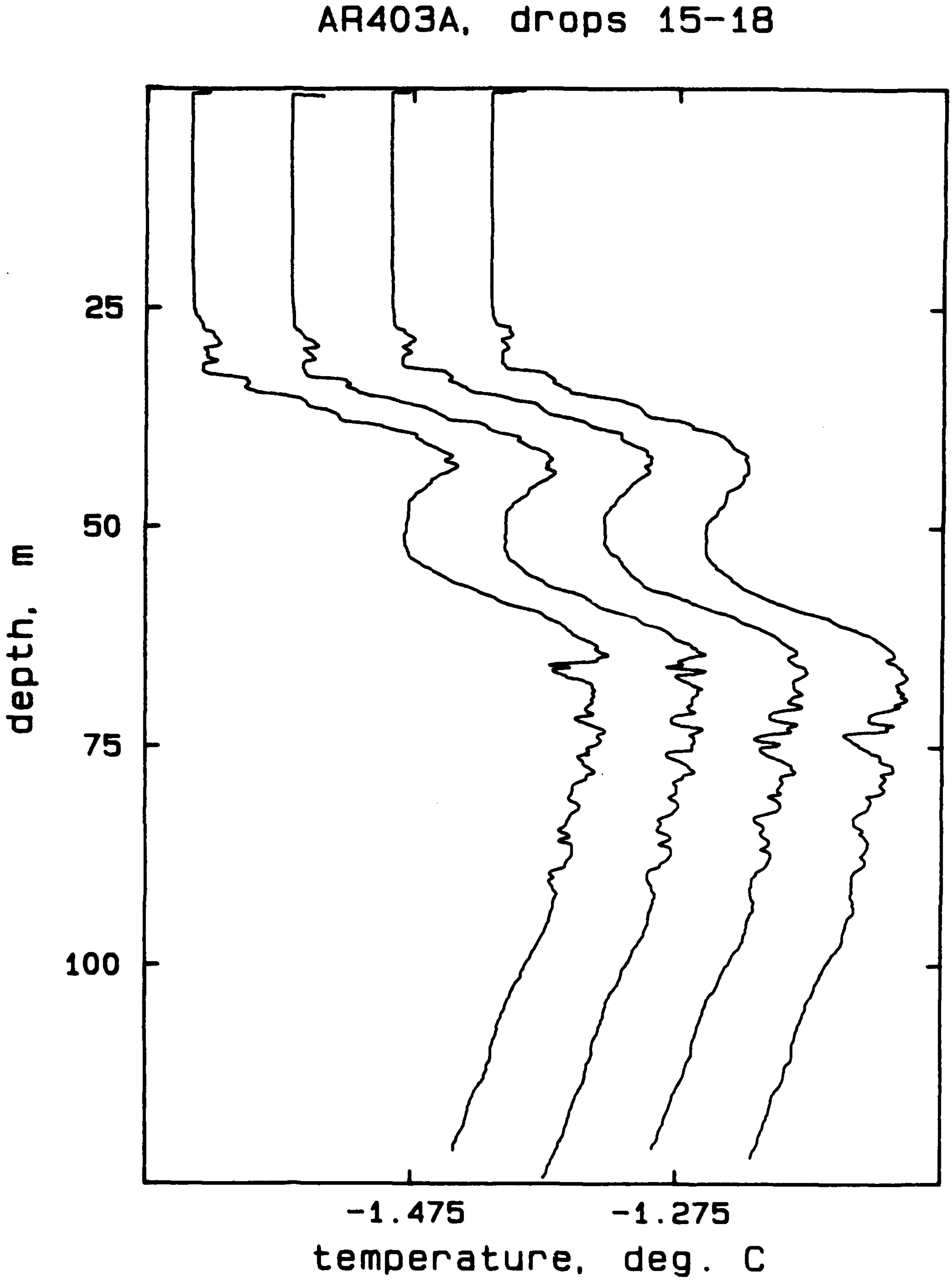

AR402B, drops 1-3, 6, 7
50
100
150
200
250
300
350
depth, m
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C

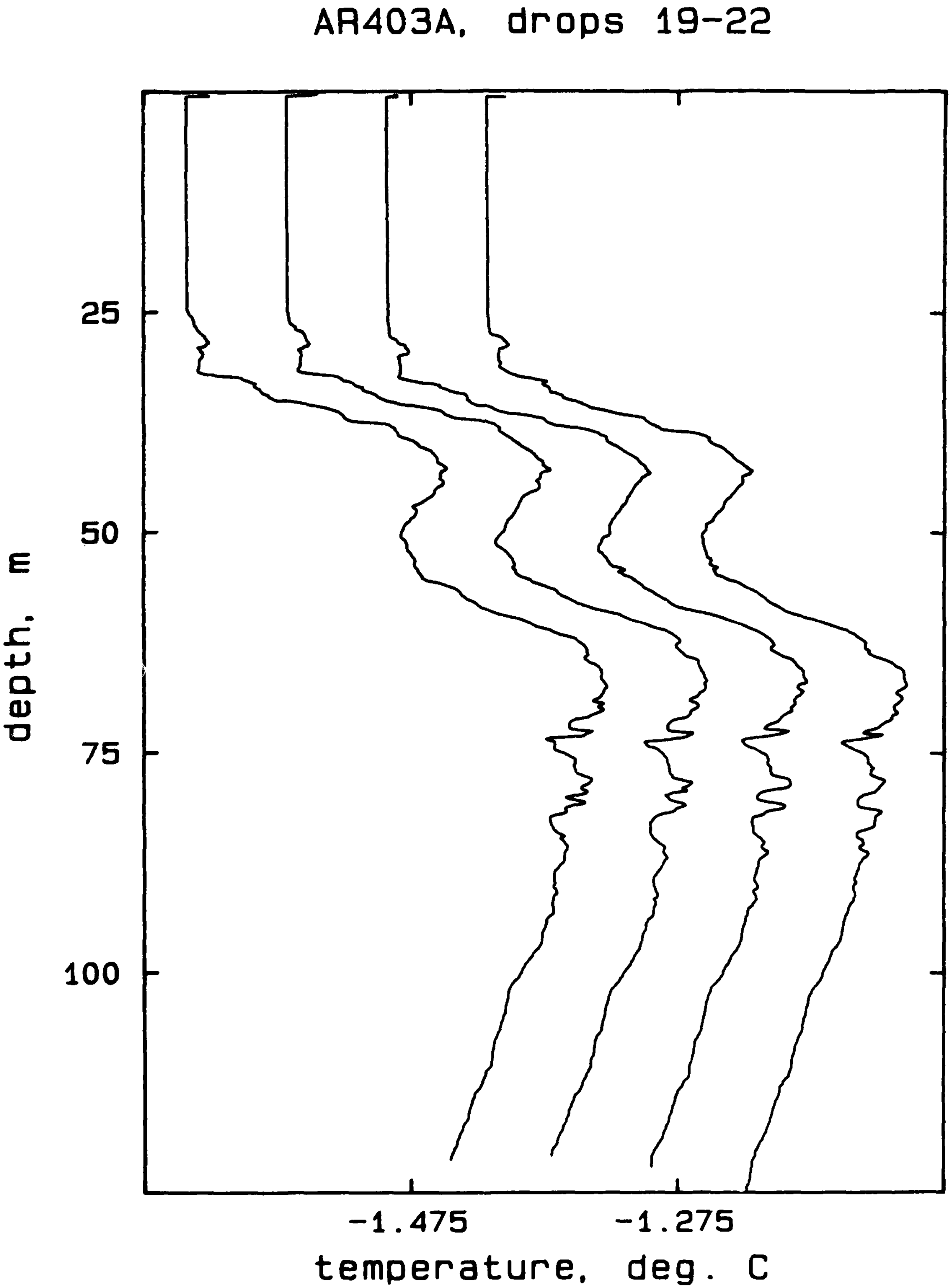

AR403A, drops 1-3
depth, m
50
100
150
200
250
300
350
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C

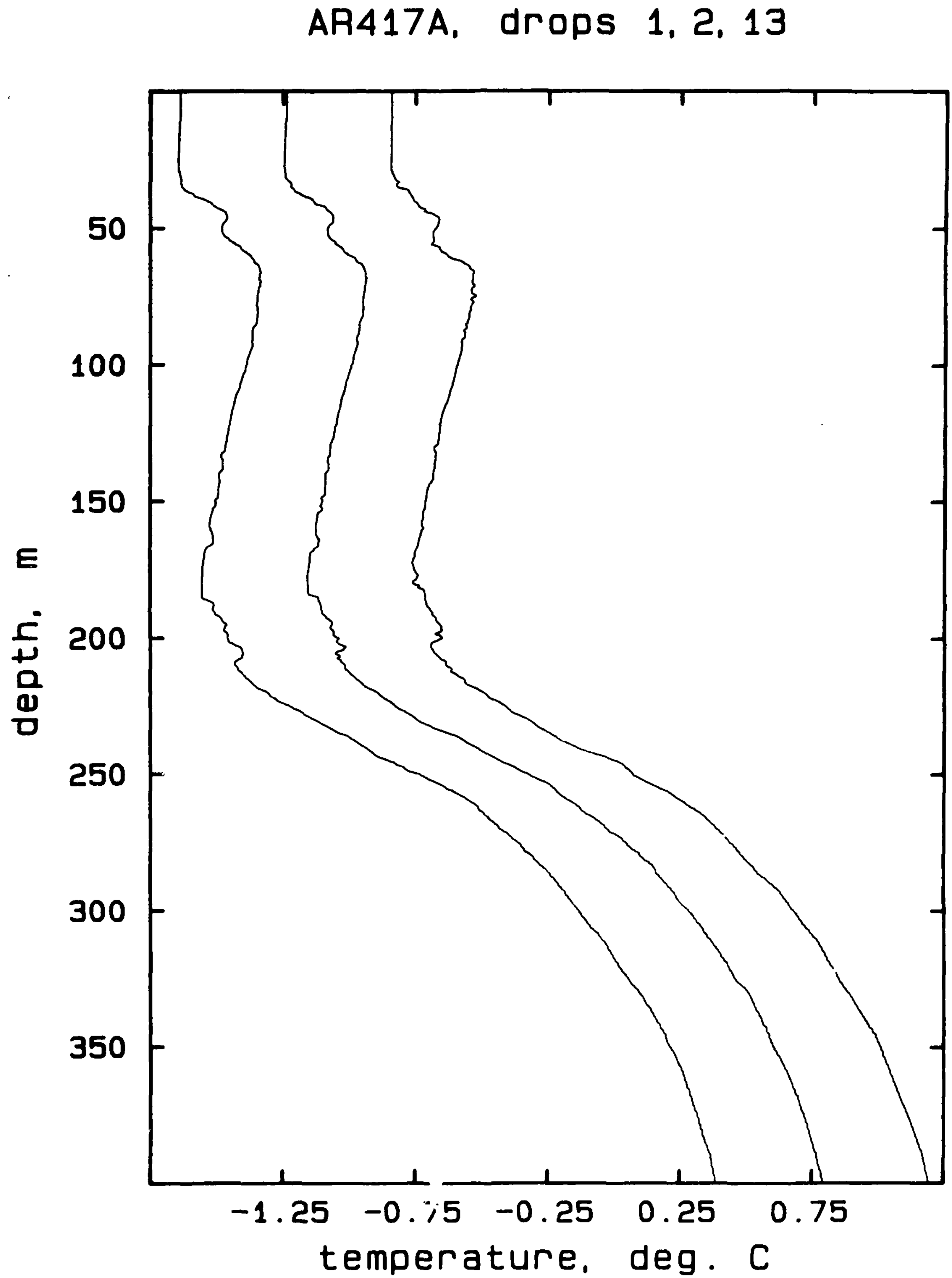

AR403A, drops 1-5
25
50
75
100
depth, m
-1.475
-1.275
temperature, deg. C

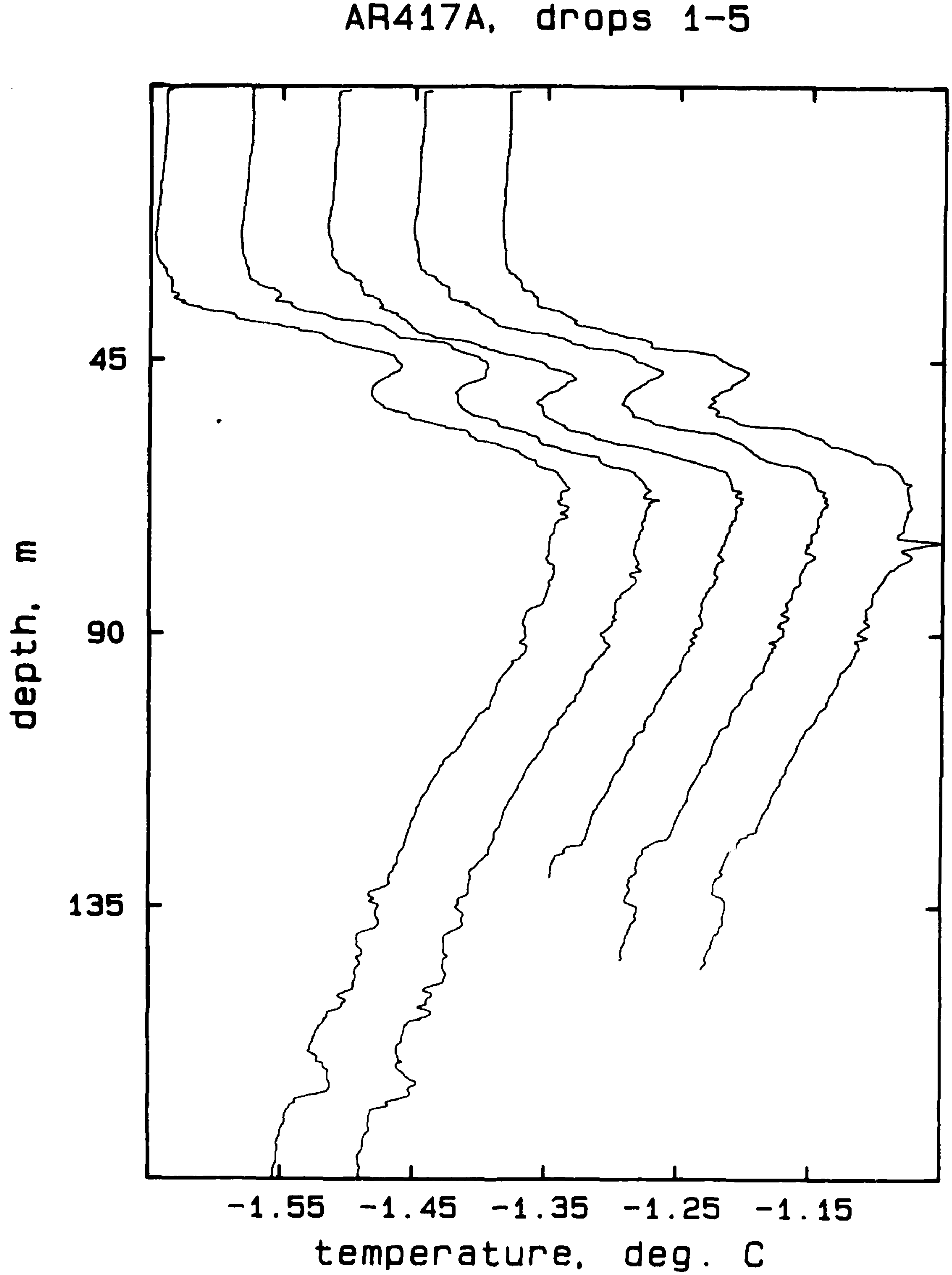

AR403A, drops 6-10
depth, m
25
50
75
100
-1.475
-1.275
temperature, deg. C


AR403A, drops 11-14
25
50
75
100
depth, m
-1.475
-1.275
temperature, deg. C

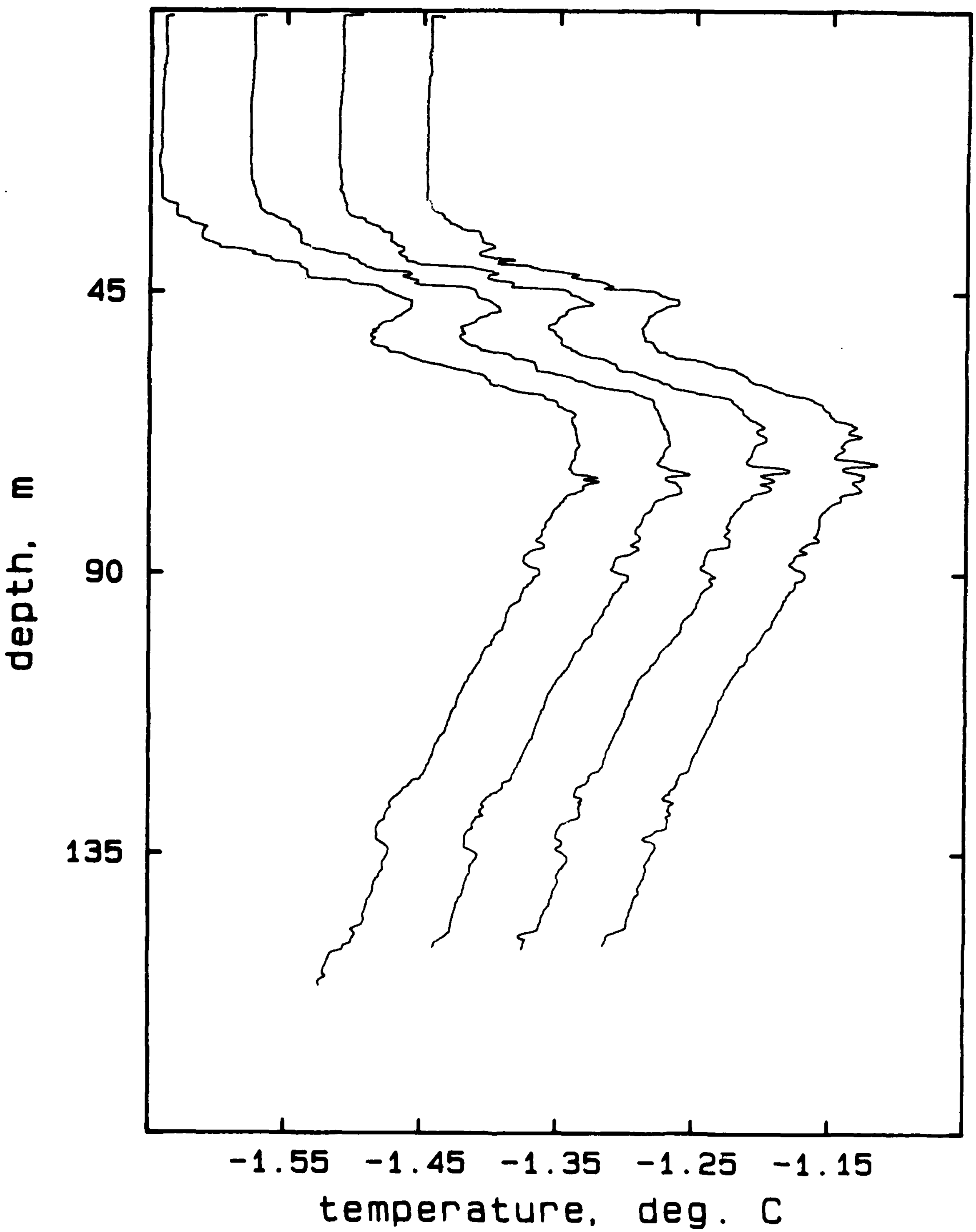

AR403A, drops 15-18
25
50
75
100
depth, m
-1.475
-1.275
temperature, deg. C

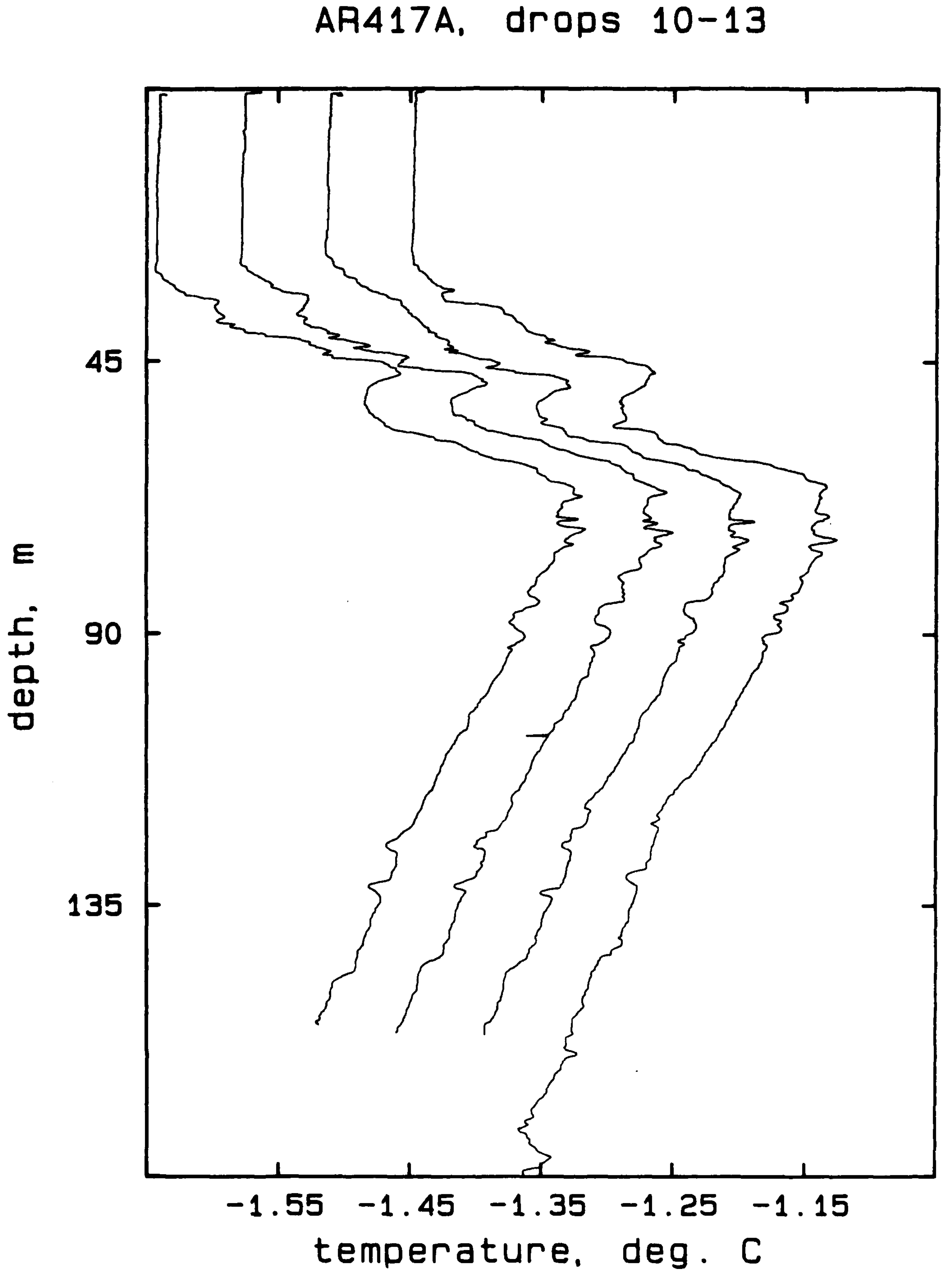

AR403A, drops 19-22
depth, m
25
50
75
100
-1.475
-1.275
temperature, deg. C

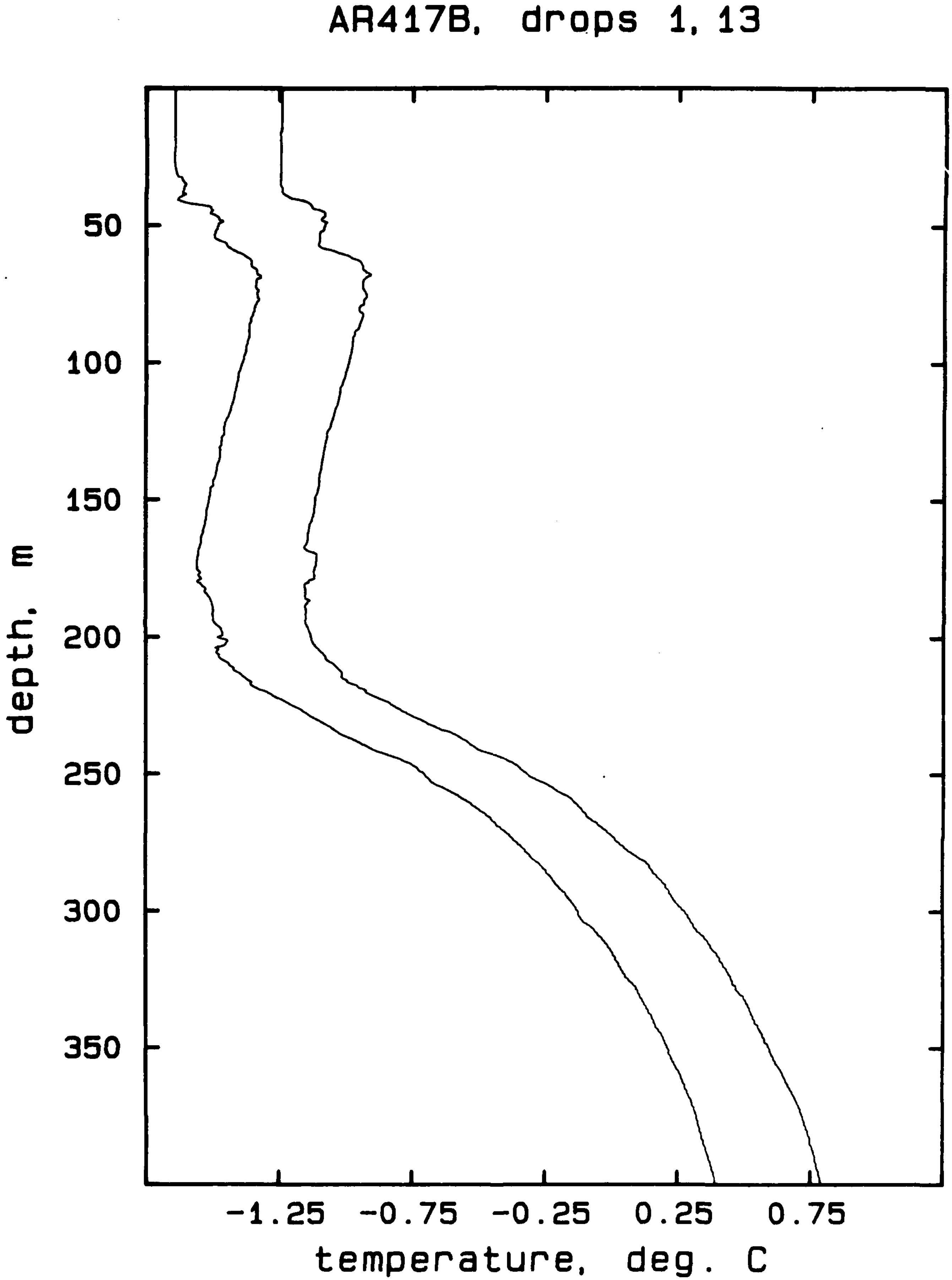

AR417A, drops 1, 2, 13
50
100
150
200
250
300
350
depth, m
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C


AR417A, drops 1-5
depth, m
45
90
135
-1.55
-1.45
-1.35
-1.25
-1.15
temperature, deg. C

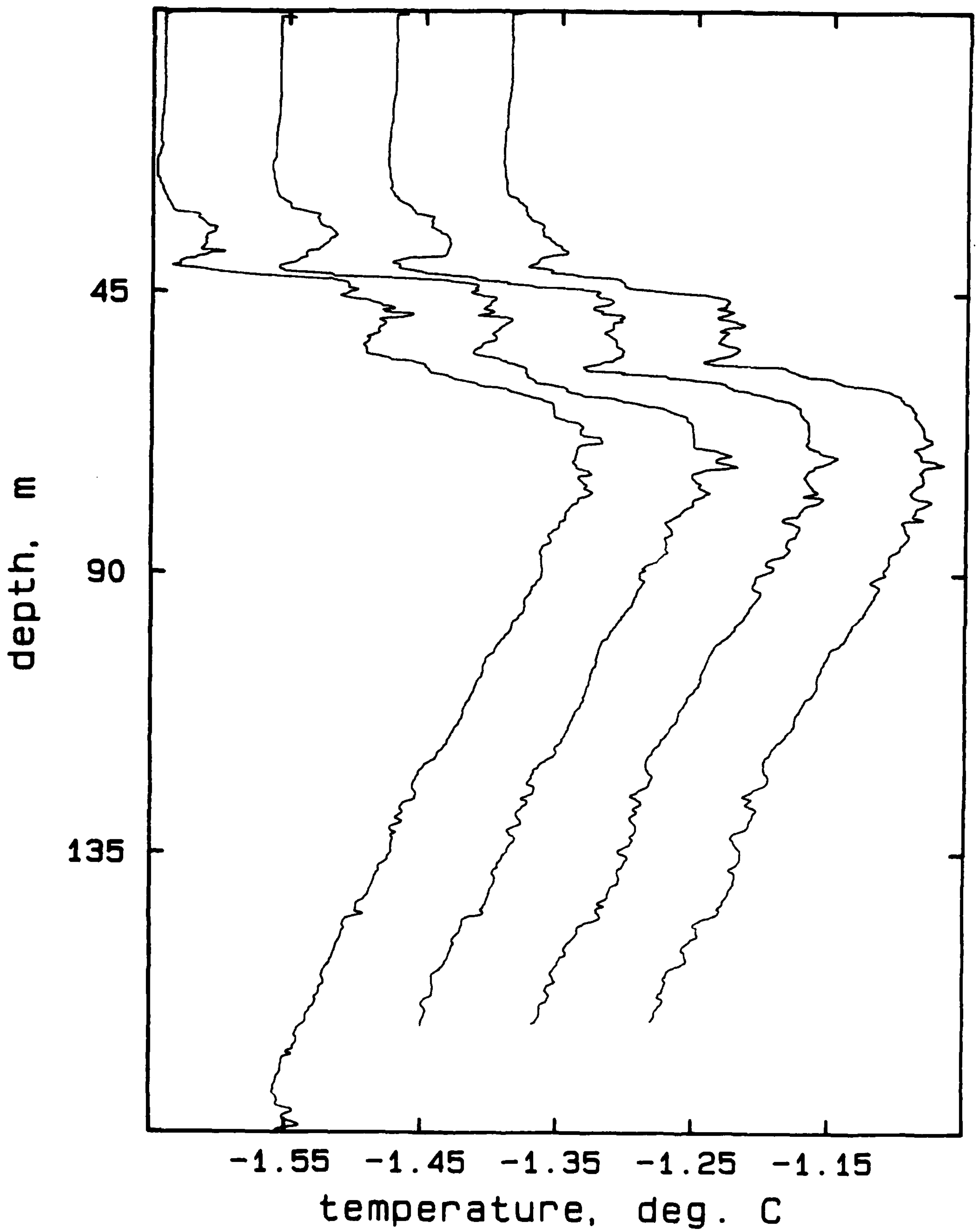
AR417A, drops 6-9

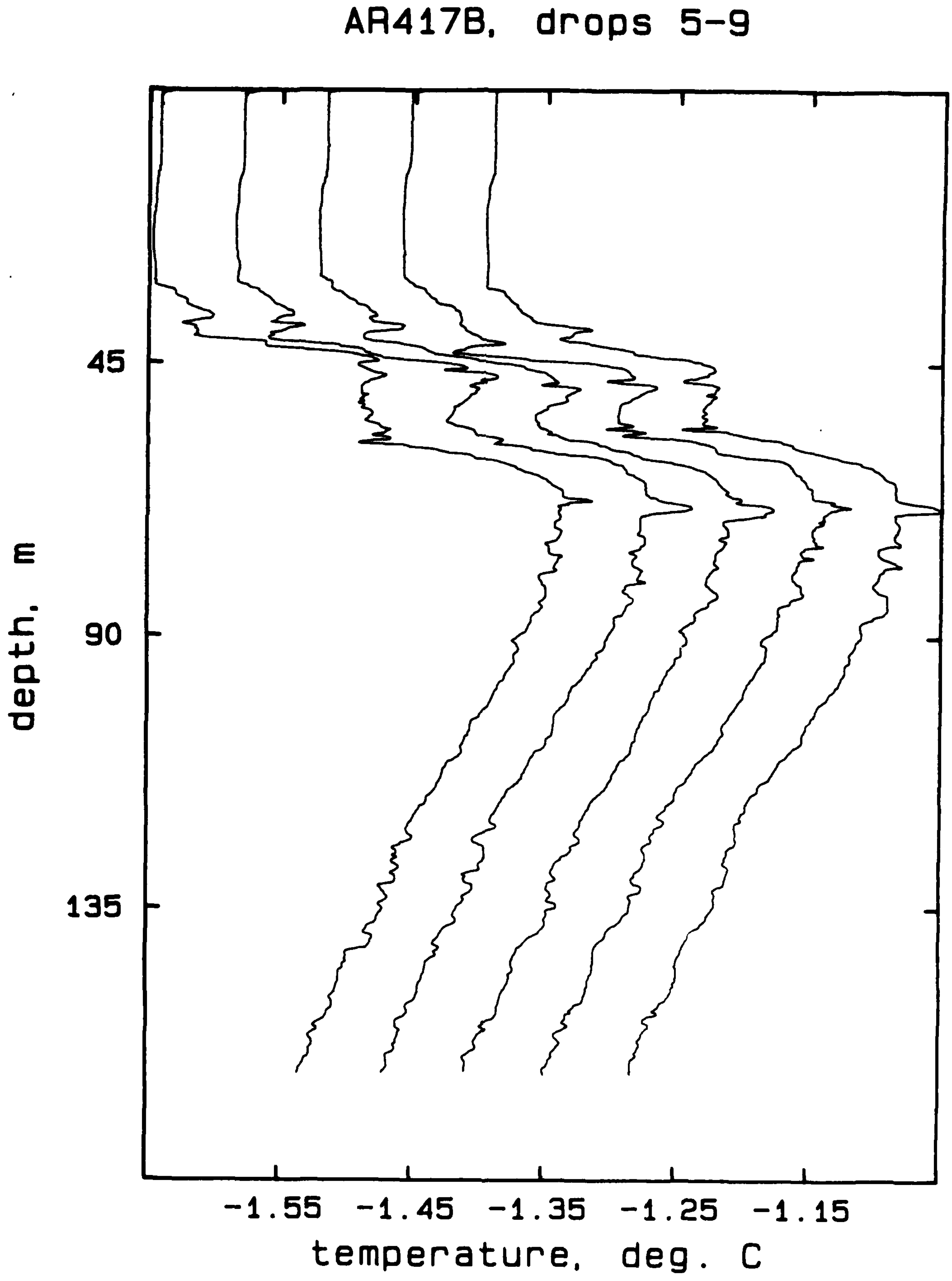


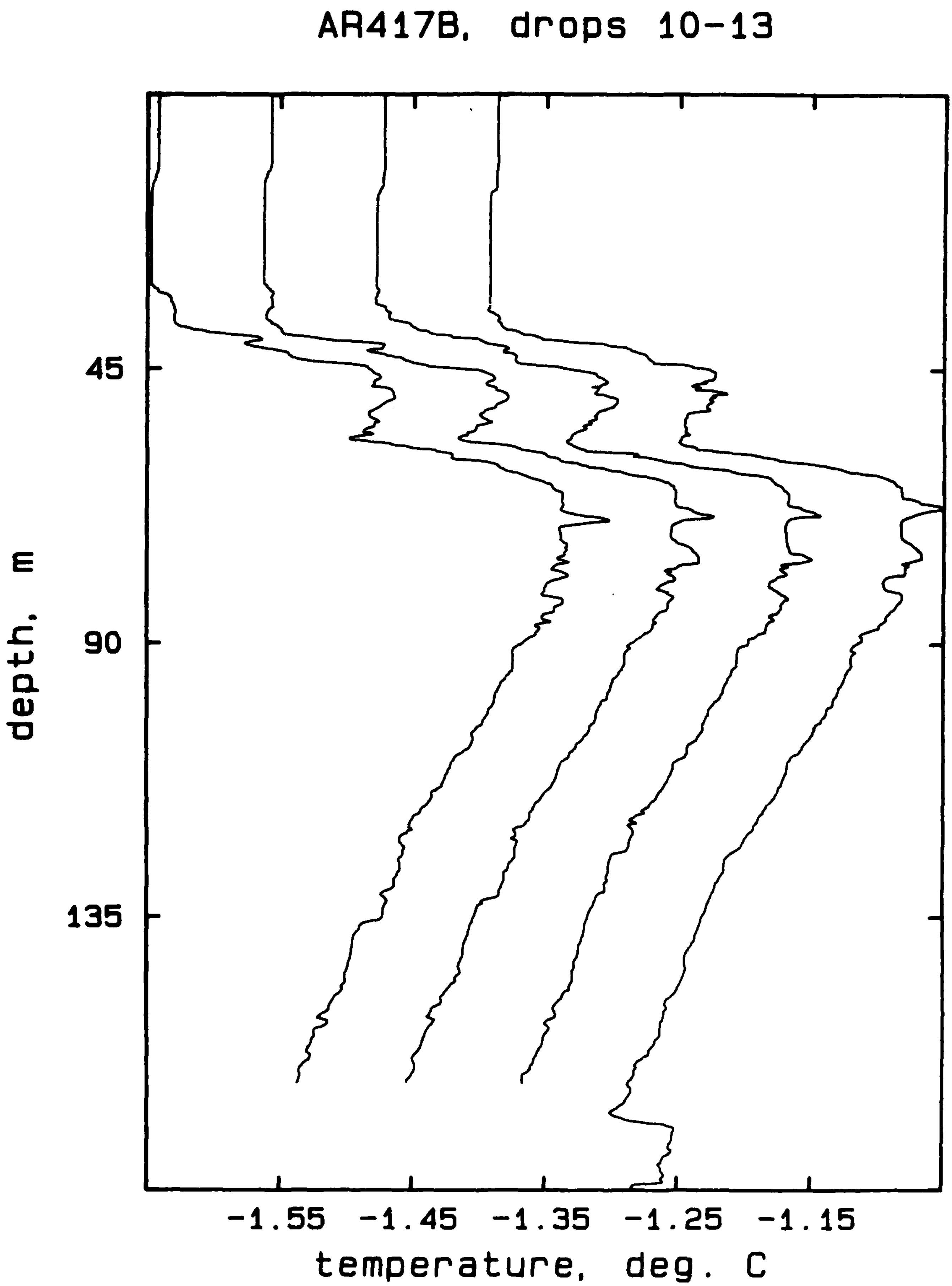

AR417A, drops 10-13
depth, m
45
90
135
-1.55
-1.45
-1.35
-1.25
-1.15
temperature, deg. C


AR417B, drops 1, 13
50
100
150
200
250
300
350
depth, m
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C

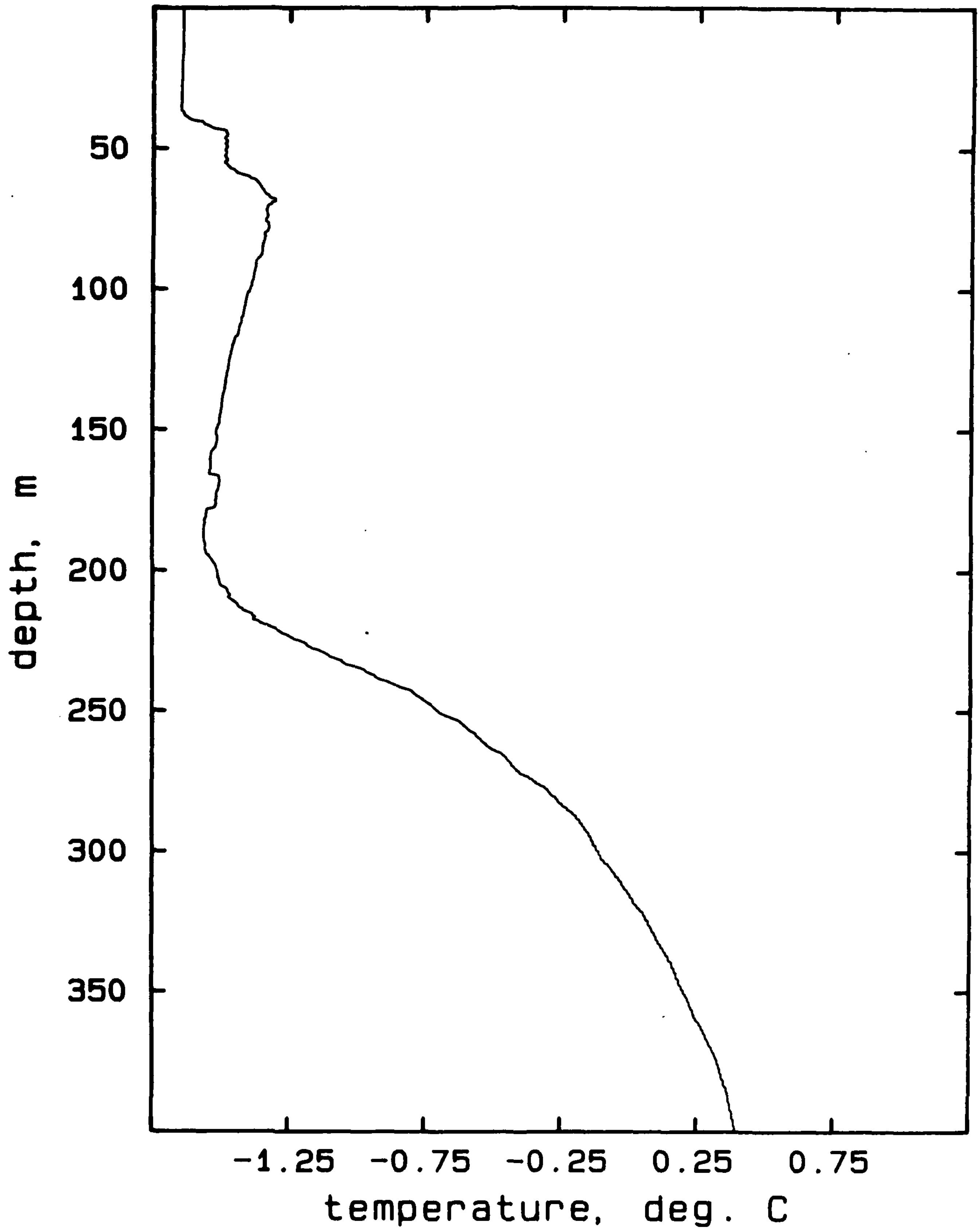
AR417B, drops 1-4



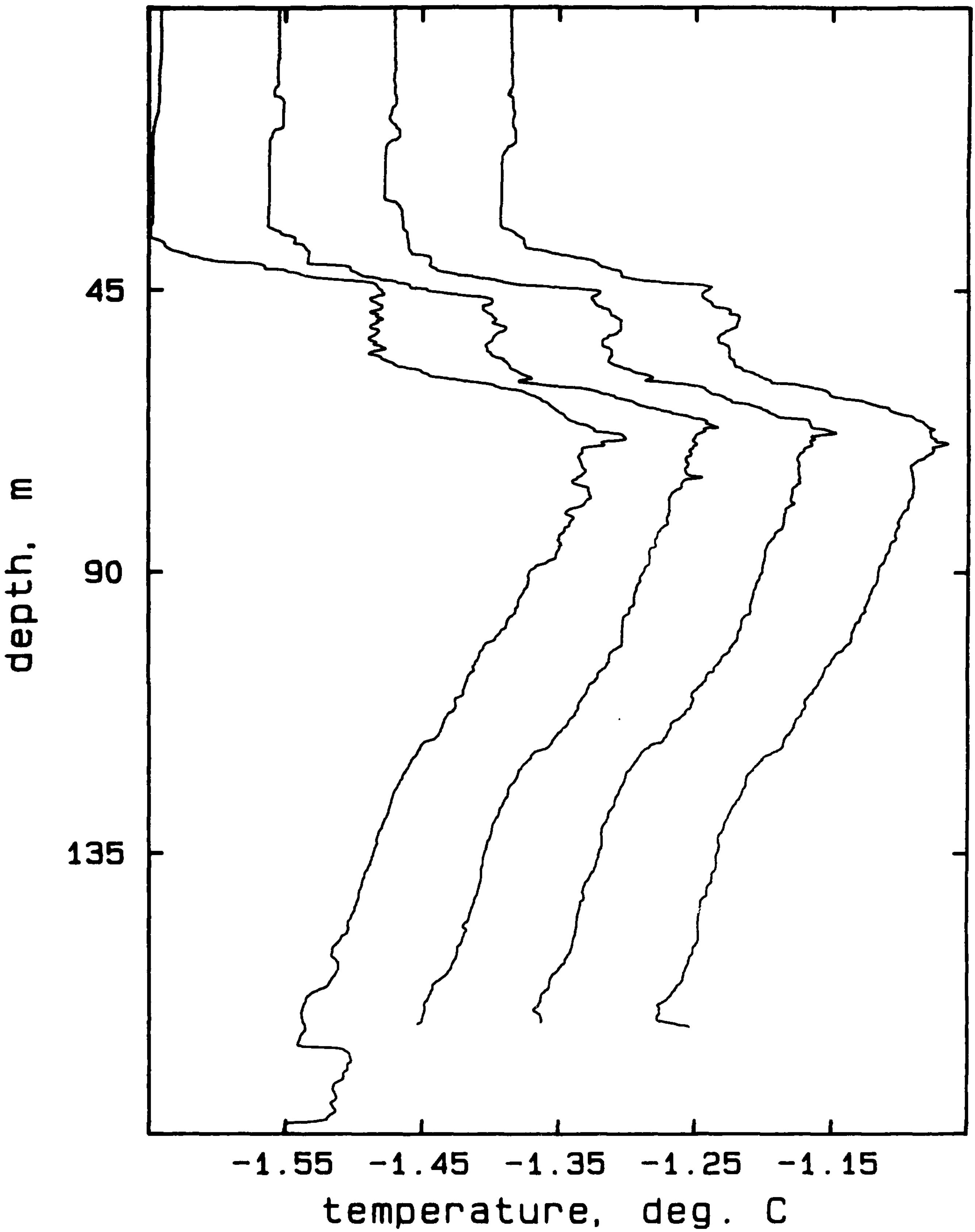

AR417B, drops 5-9
45
90
135
depth, m
-1.55
-1.45
-1.35
-1.25
-1.15
temperature, deg. C

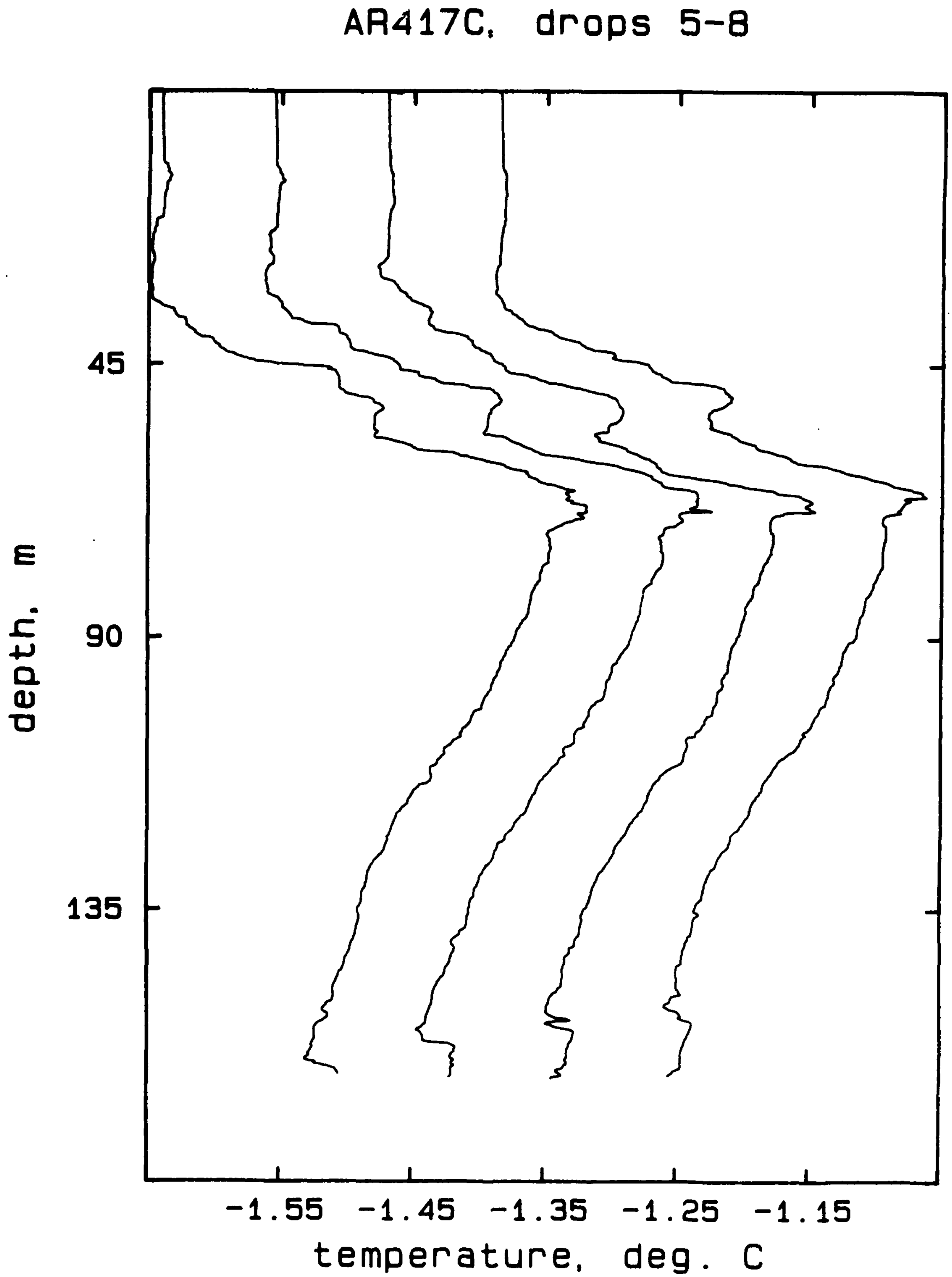

AR417B, drops 10-13
45
90
135
depth, m
-1.55
-1.45
-1.35
-1.25
-1.15
temperature, deg. C

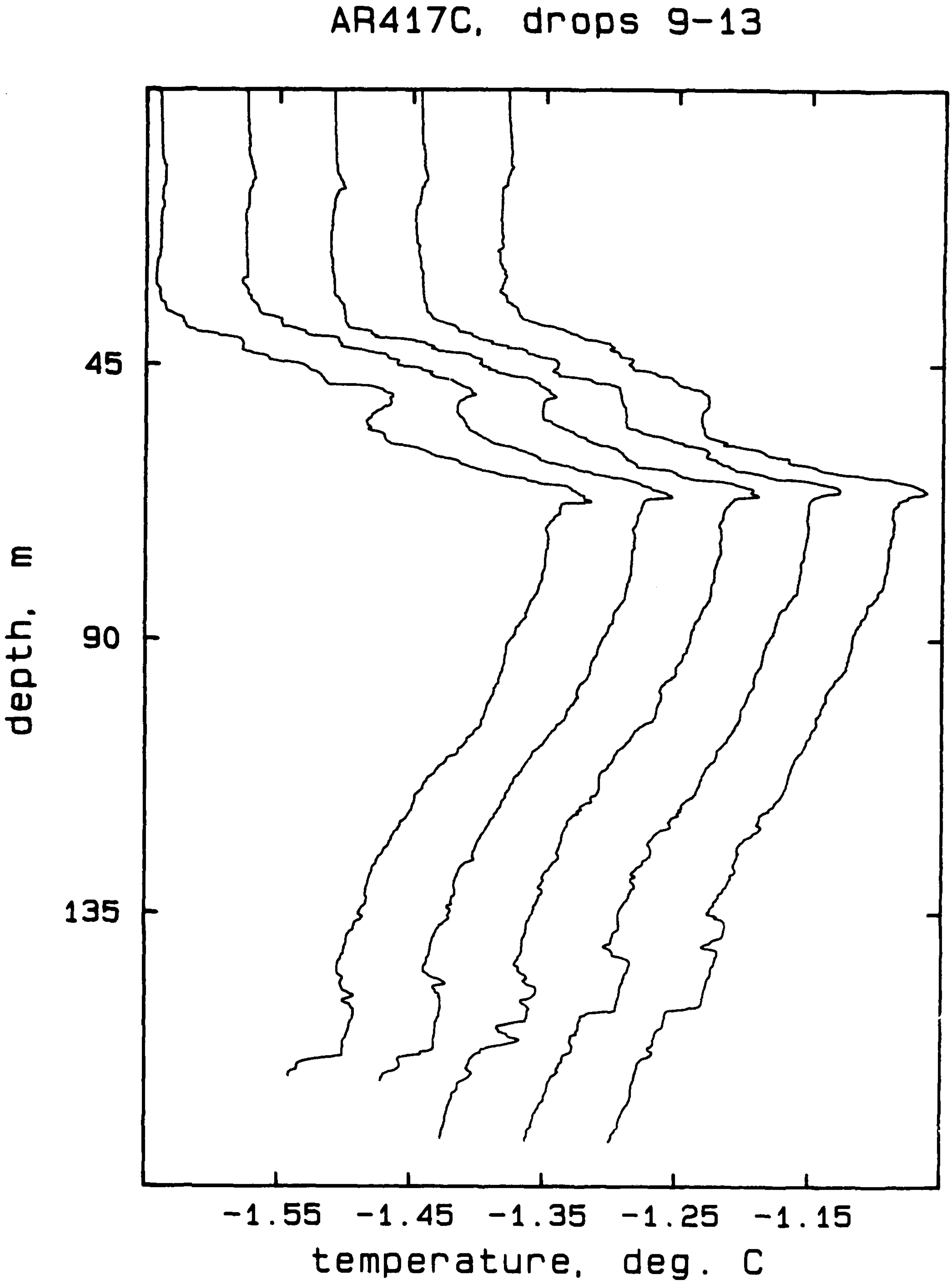
AR417C, drop 1

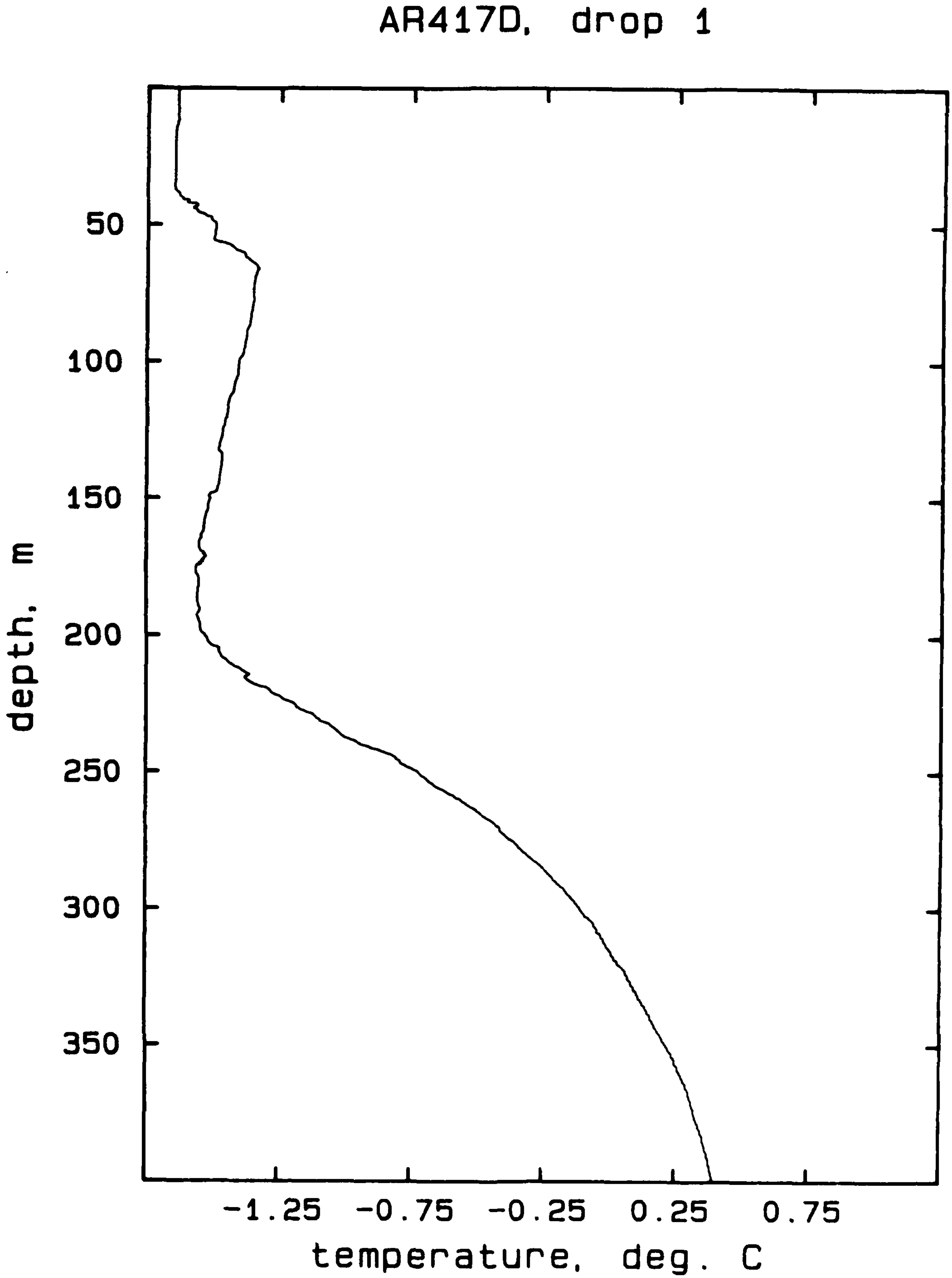


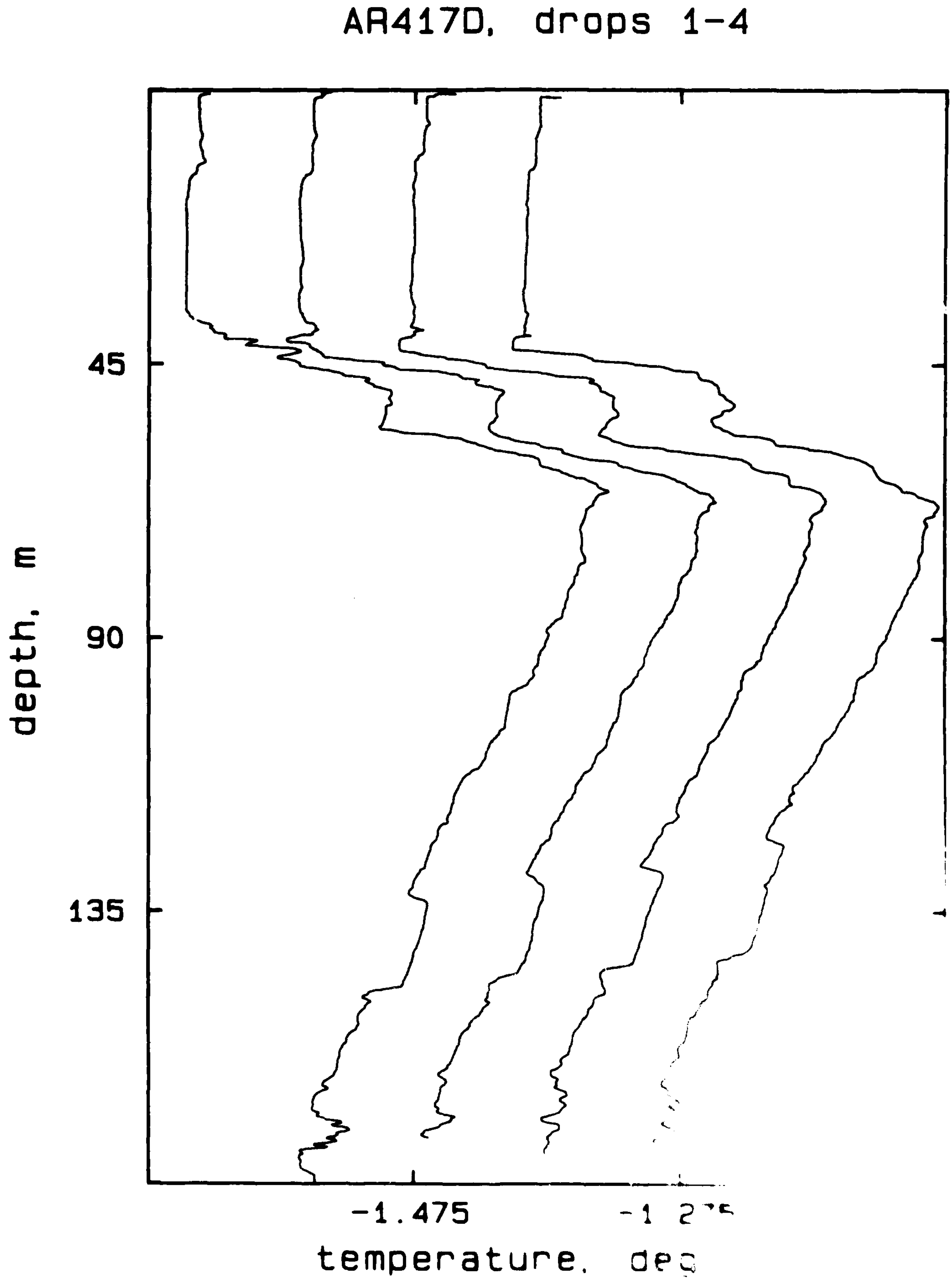
AR417C, drops 1-4




AR417C, drops 5-8
45
90
135
depth, m
-1.55
-1.45
-1.35
-1.25
-1.15
temperature, deg. C

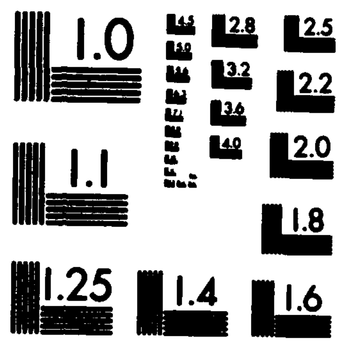

AR417C, drops 9-13
45
90
135
depth, m
-1.55
-1.45
-1.35
-1.25
-1.15
temperature, deg. C


AR417D, drop 1
50
100
150
200
250
300
350
depth, m
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C

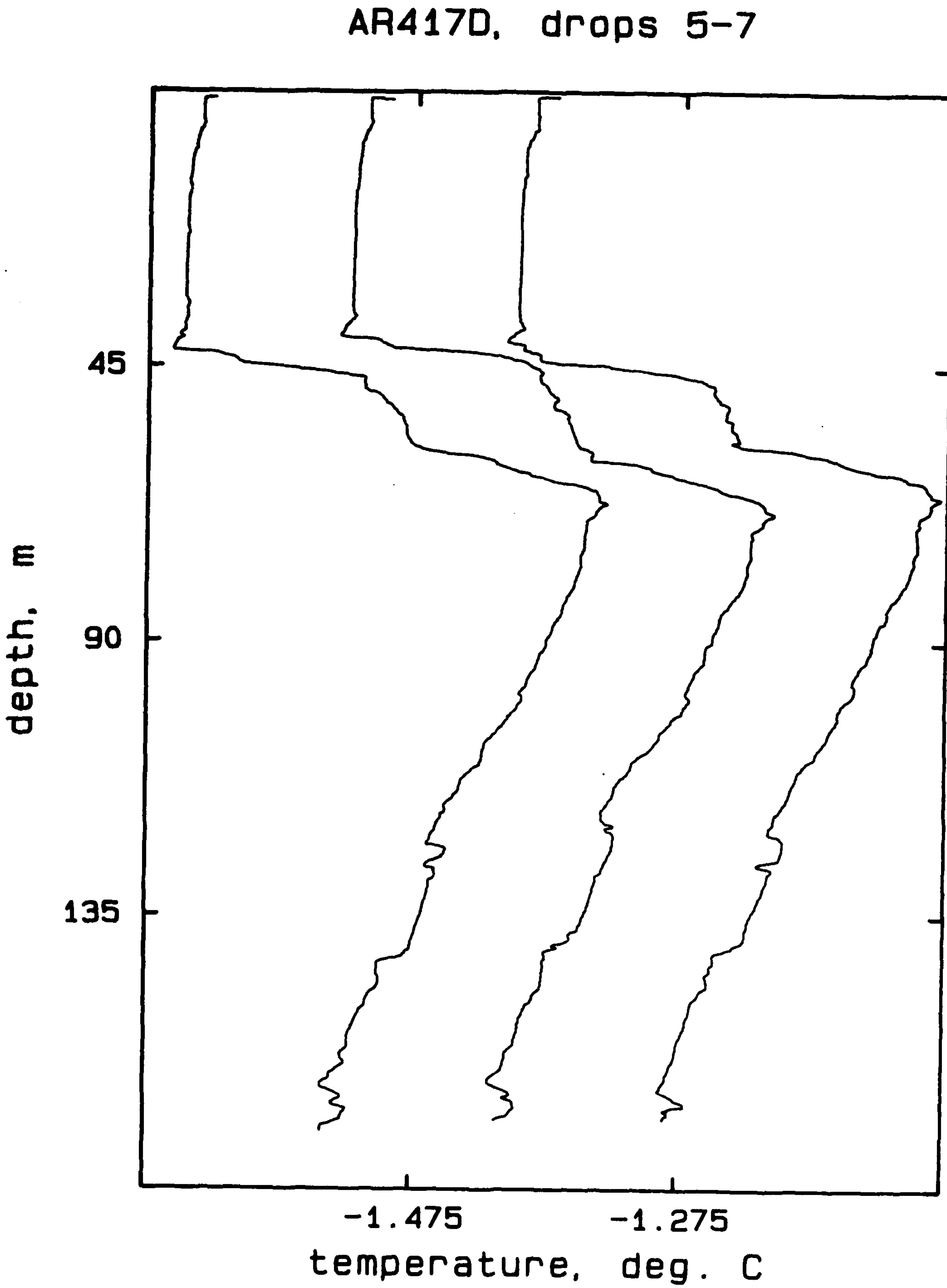

AR417D, drops 1-4
depth, m
45
90
135
-1.475
temperature, deg

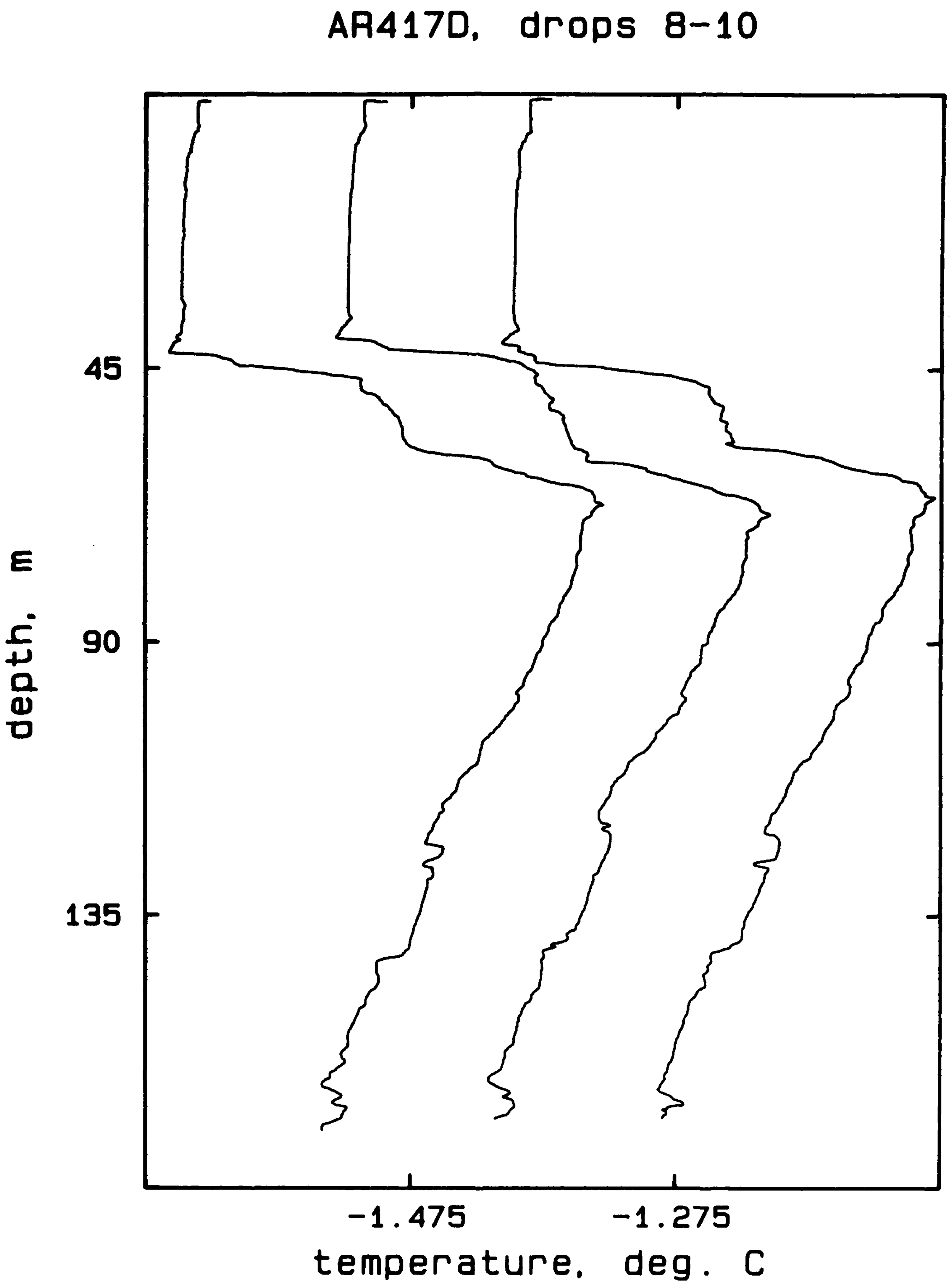
AD-A181 764 MICROSTRUCTURE CASTS DURING AIWEX (ARCTIC INTERNAL WAVE EXPERIMENT) A SUMMARY(U) OREGON STATE UNIV CORVALLIS COLL OF OCEANOGRAPHY T M DILLON ET AL. APR 85 DATA-122 3/5

UNCLASSIFIED N00014-84-C-0218 F/G 8/3 NL

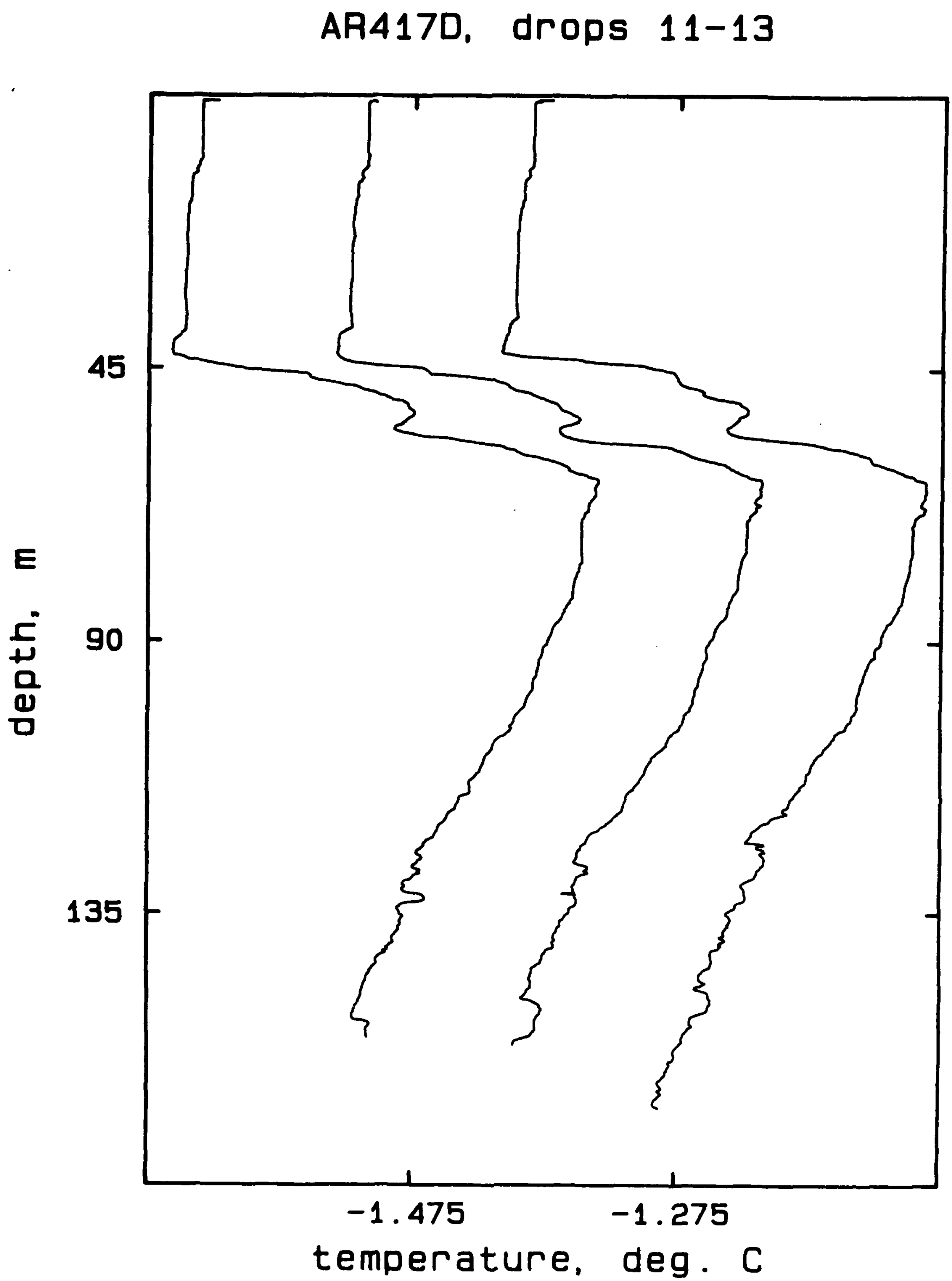


MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

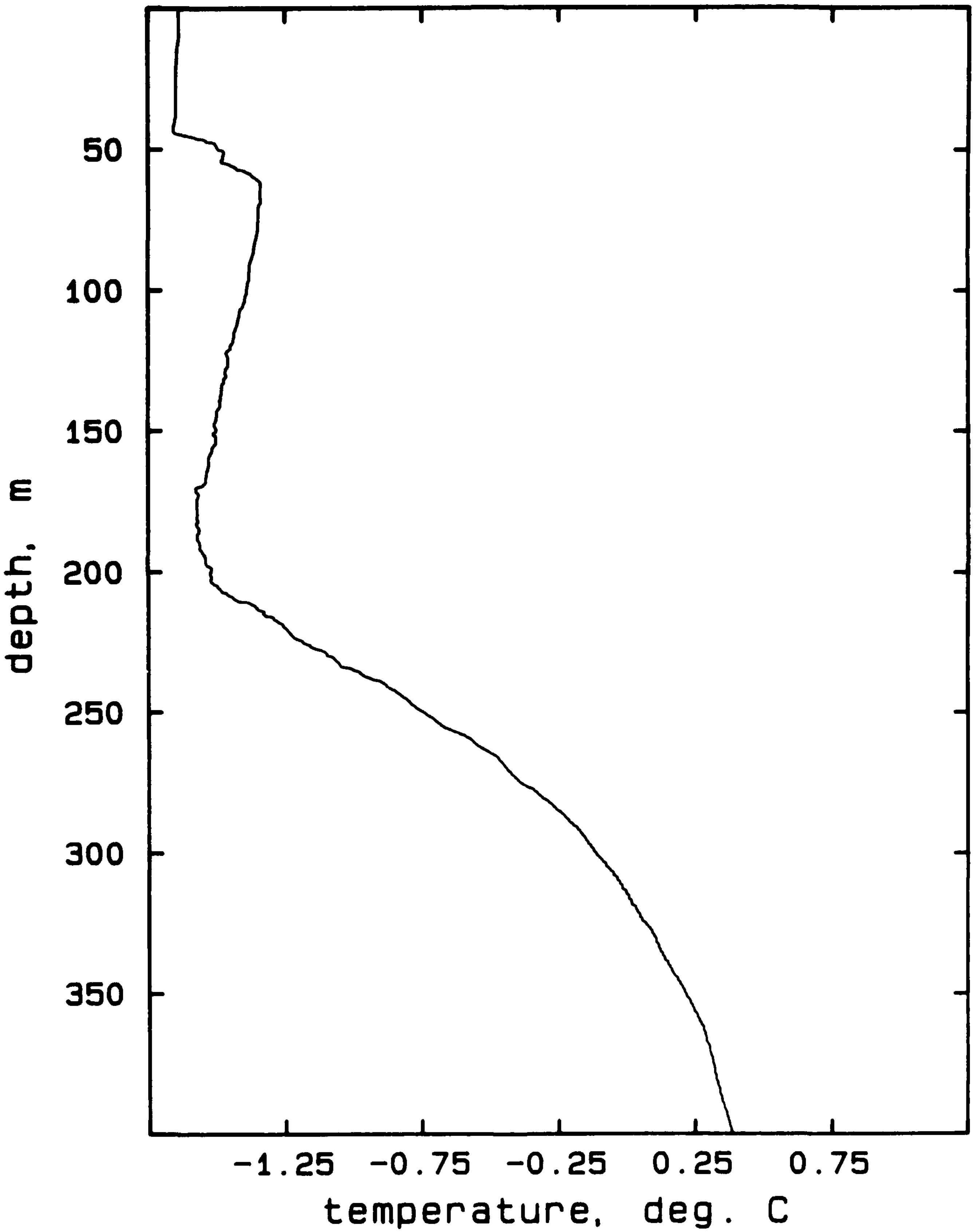

AR417D, drops 5-7
45
90
135
depth, m
-1.475
-1.275
temperature, deg. C

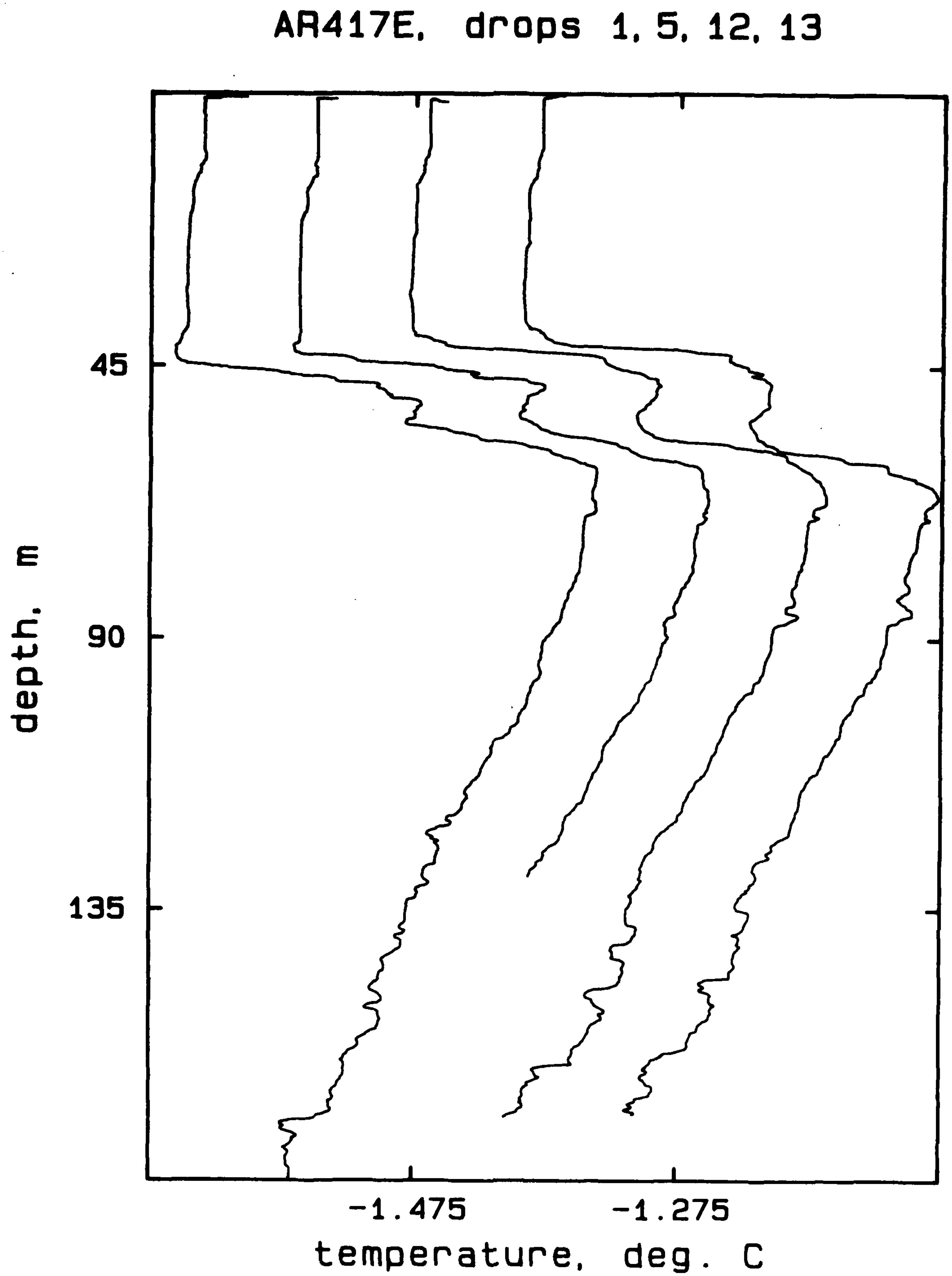


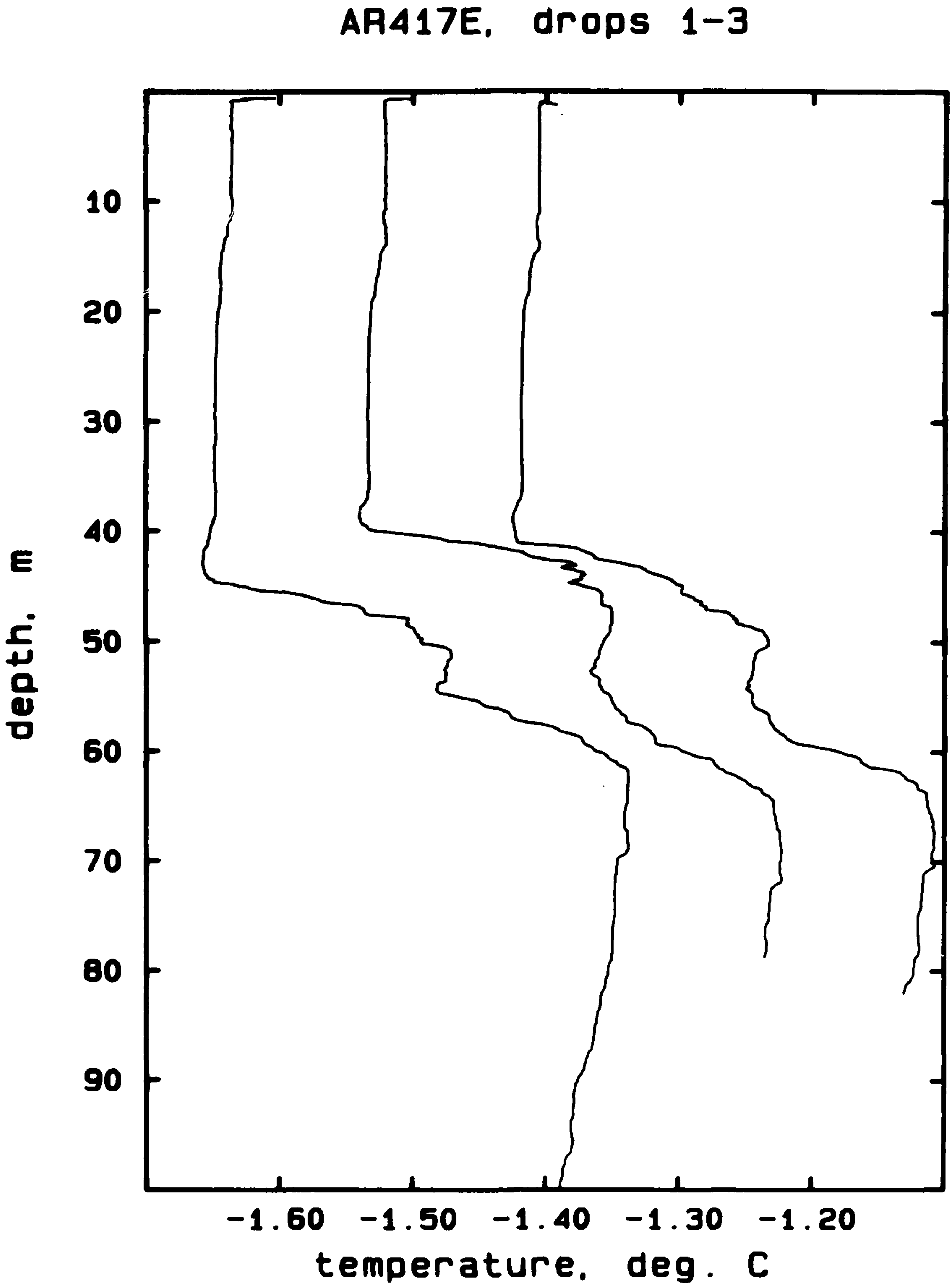
AR417D, drops 8-10
depth, m
45
90
135
-1.475
-1.275
temperature, deg. C

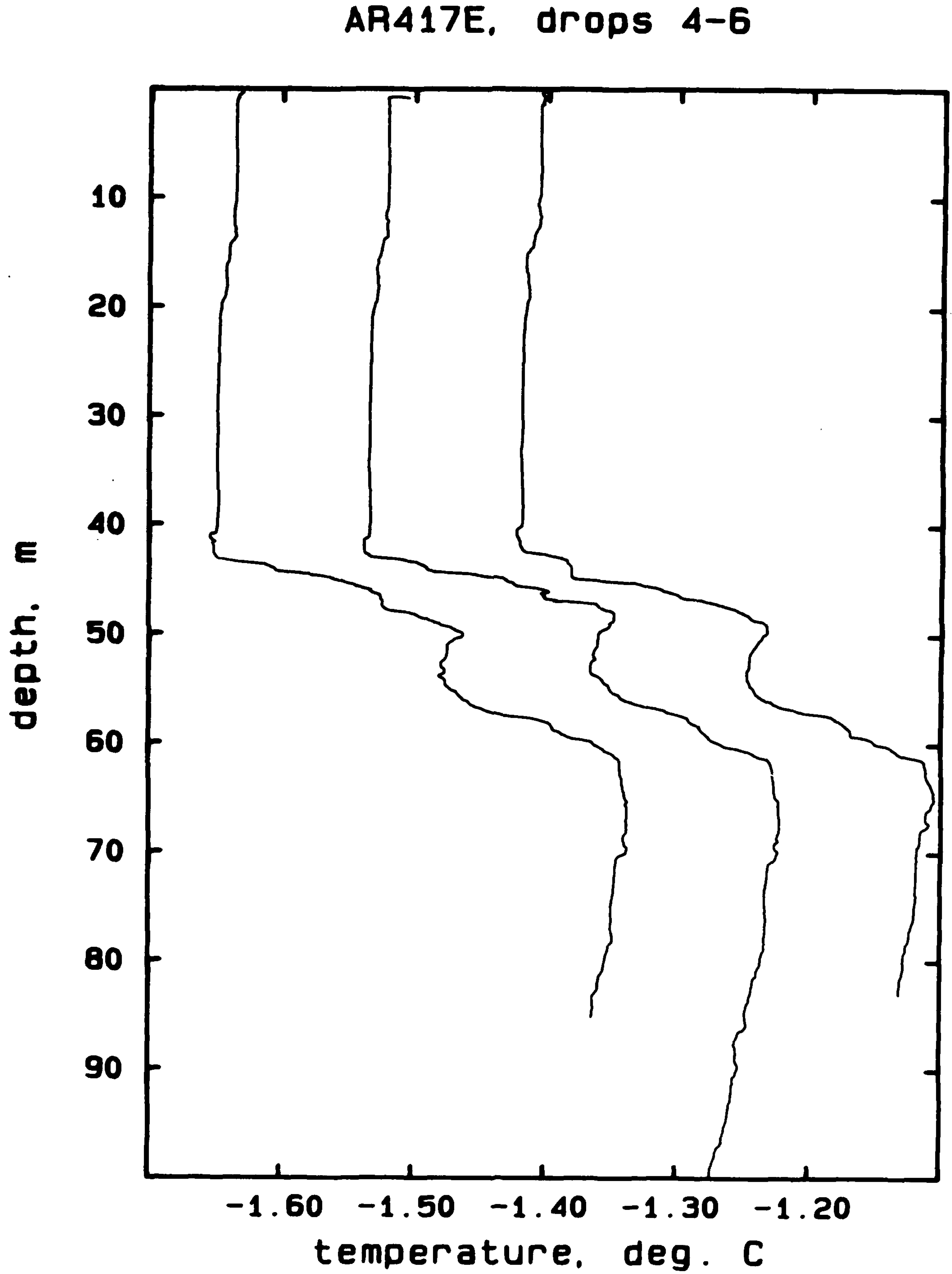

AR417D, drops 11-13
depth, m
45
90
135
-1.475
-1.275
temperature, deg. C

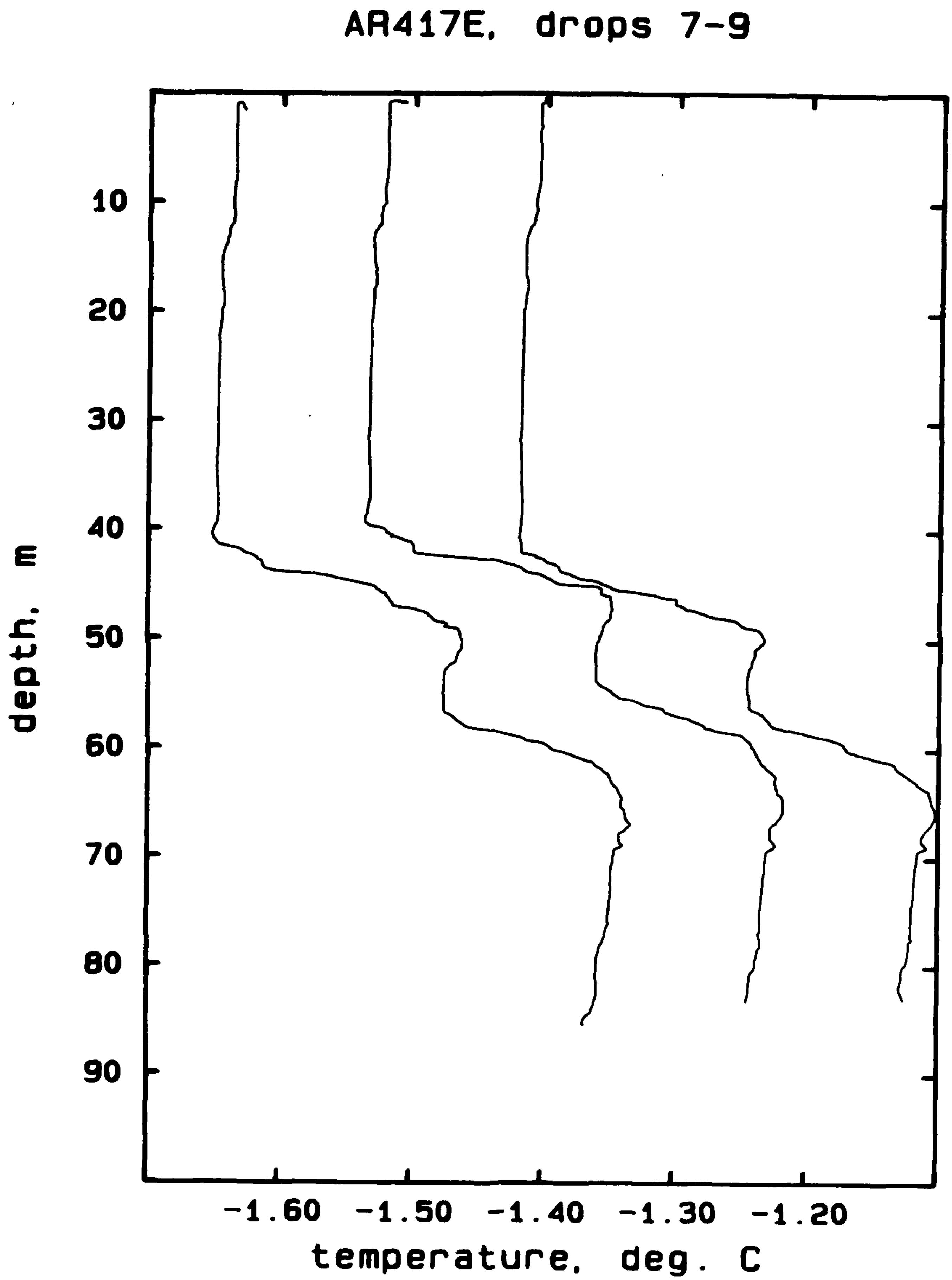
AR417E, drop 1

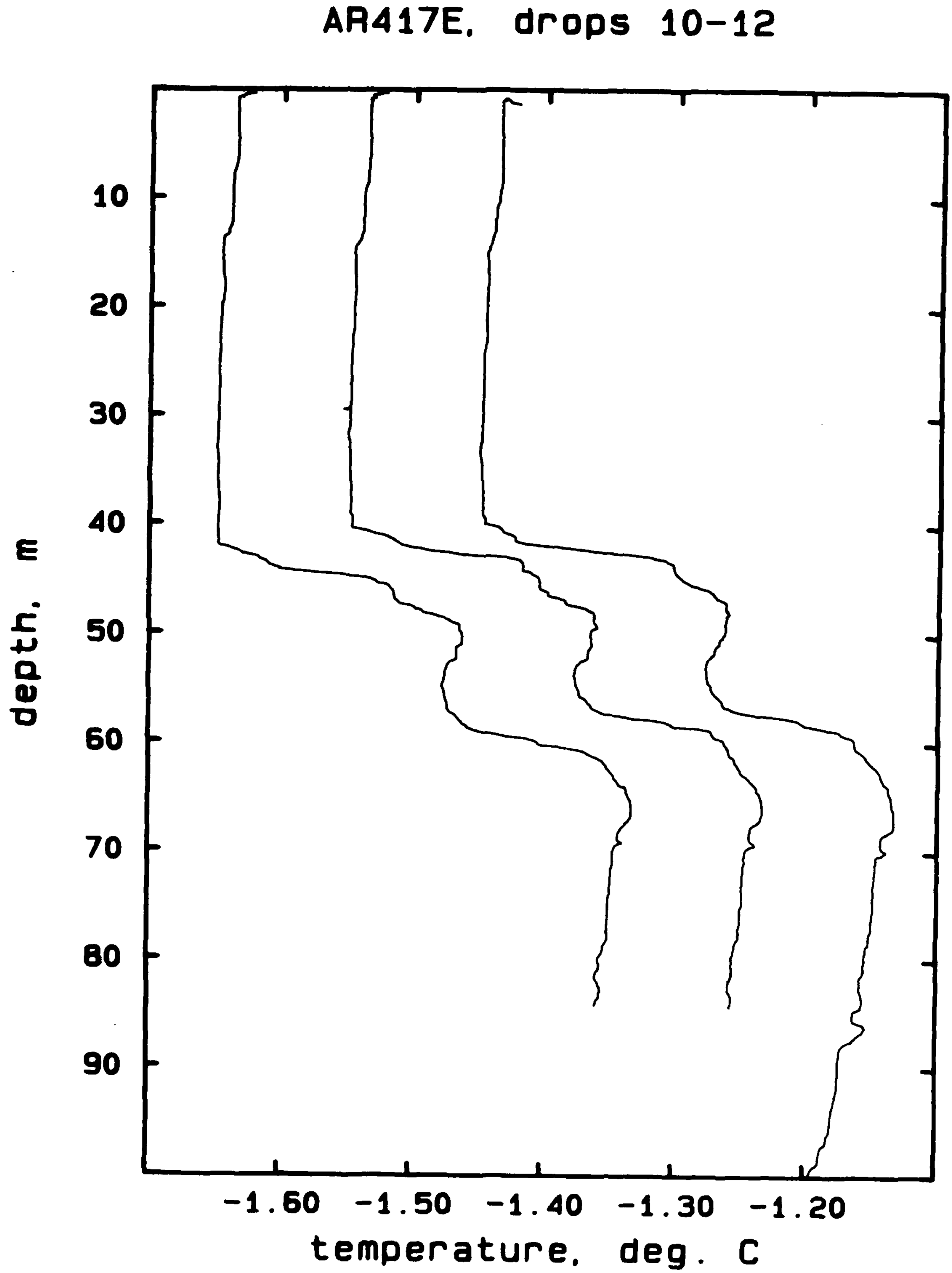


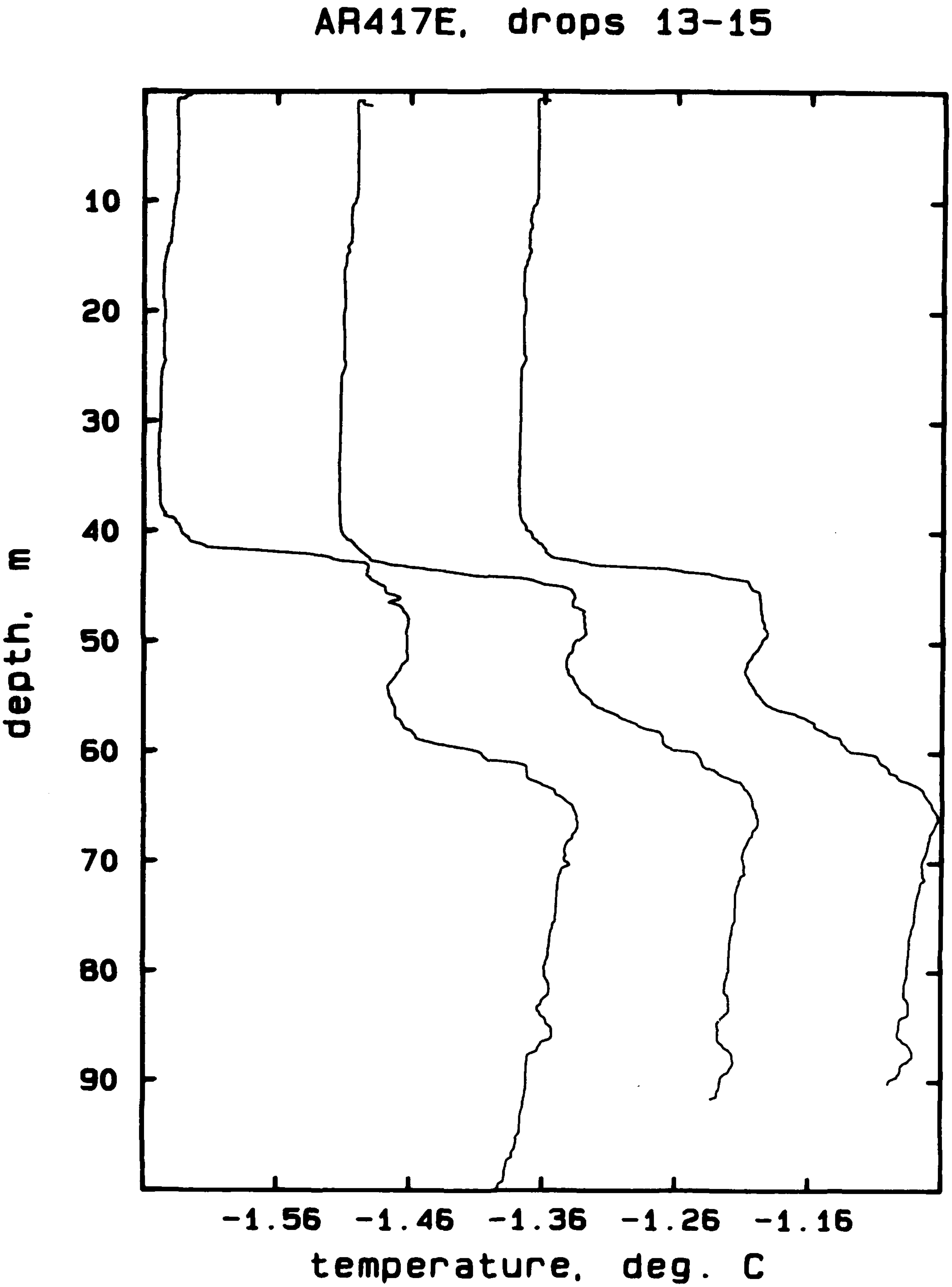

AR417E, drops 1, 5, 12, 13
45
90
135
depth, m
-1.475
-1.275
temperature, deg. C

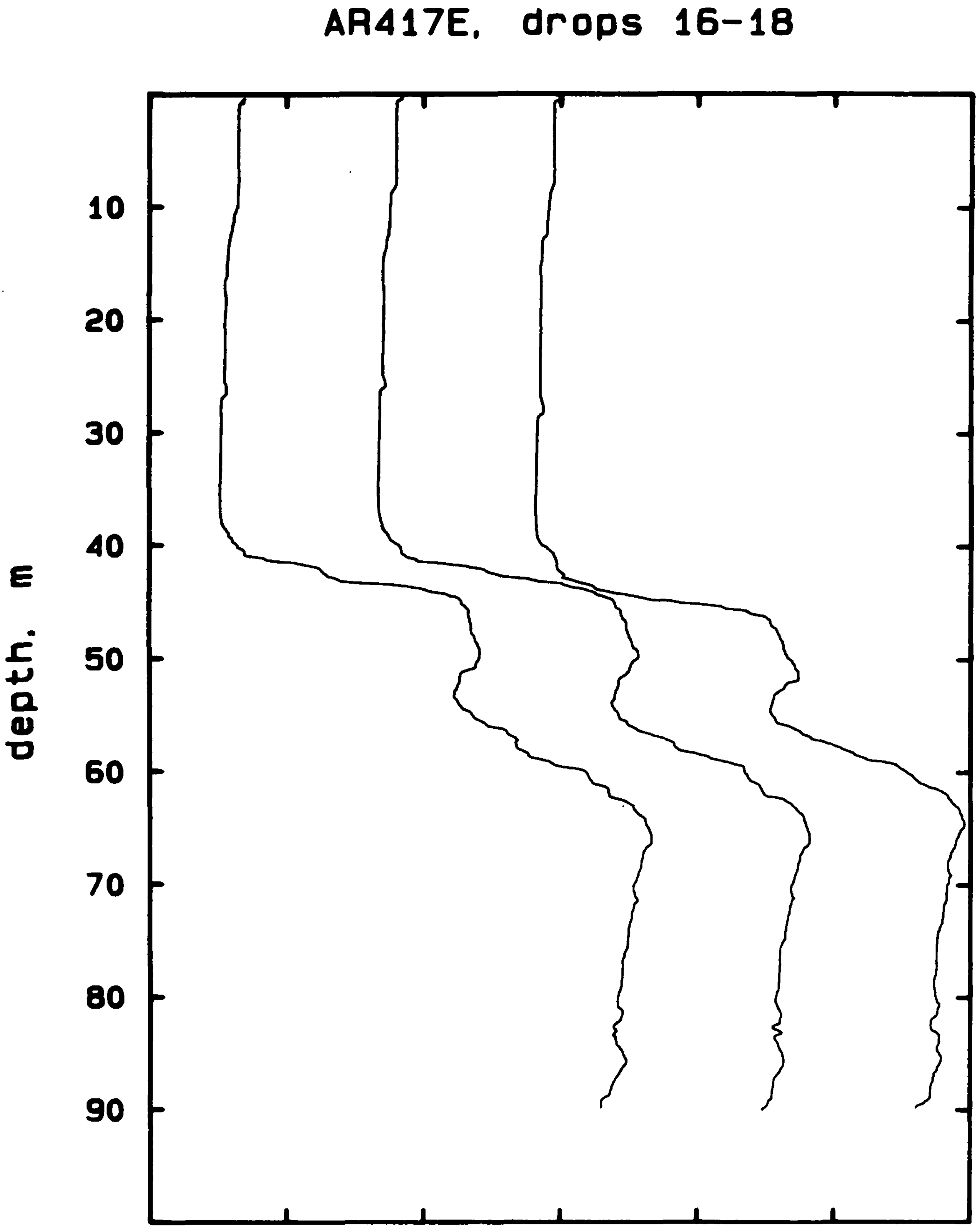

AR417E, drops 1-3
10
20
30
40
50
60
70
80
90
depth, m
-1.60
-1.50
-1.40
-1.30
-1.20
temperature, deg. C

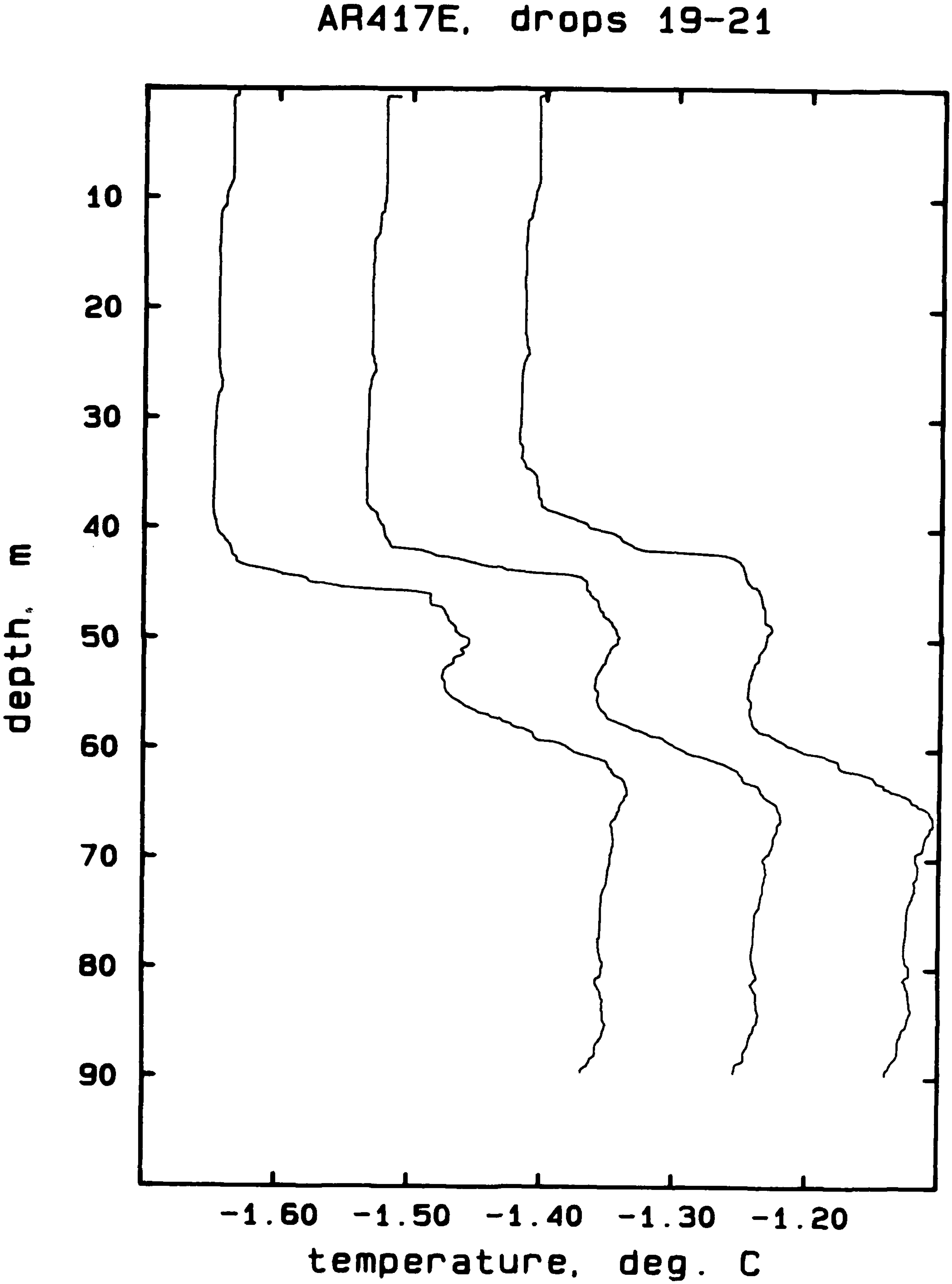

AR417E, drops 4-6
10
20
30
40
50
60
70
80
90
depth, m
-1.60
-1.50
-1.40
-1.30
-1.20
temperature, deg. C

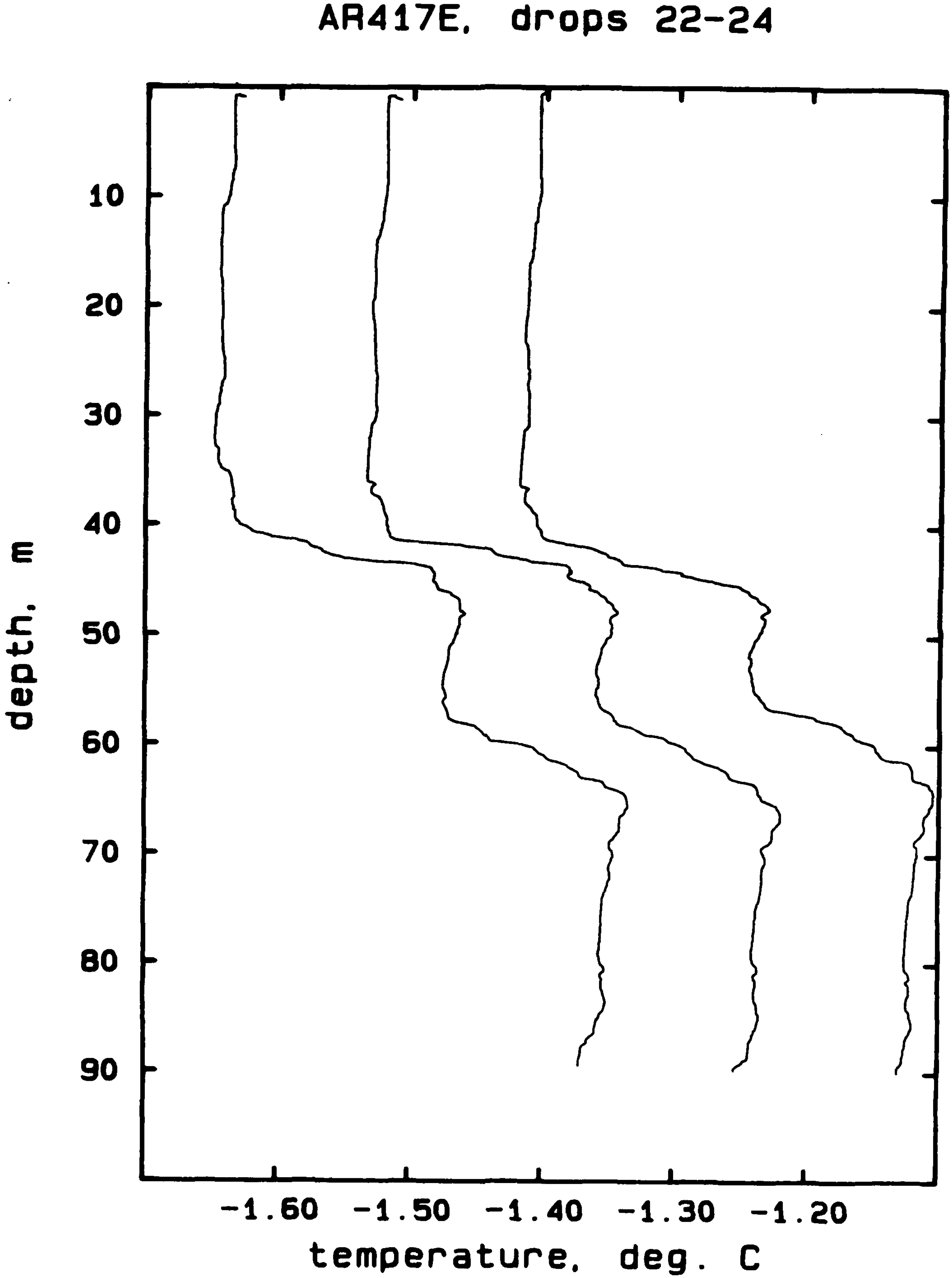

AR417E, drops 7-9
10
20
30
40
50
60
70
80
90
depth, m
-1.60
-1.50
-1.40
-1.30
-1.20
temperature, deg. C

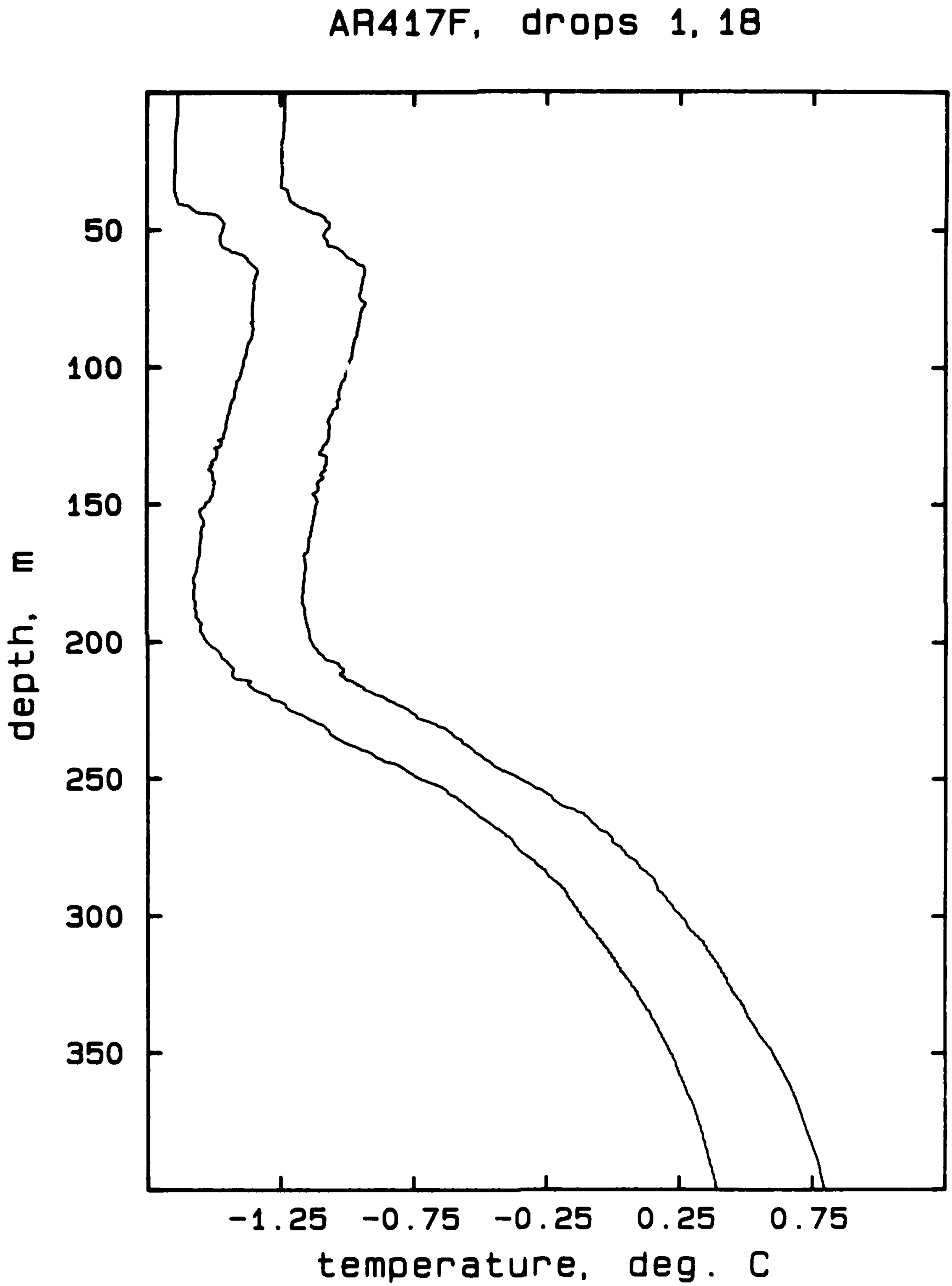

AR417E, drops 10-12
depth, m
10
20
30
40
50
60
70
80
90
-1.60
-1.50
-1.40
-1.30
-1.20
temperature, deg. C

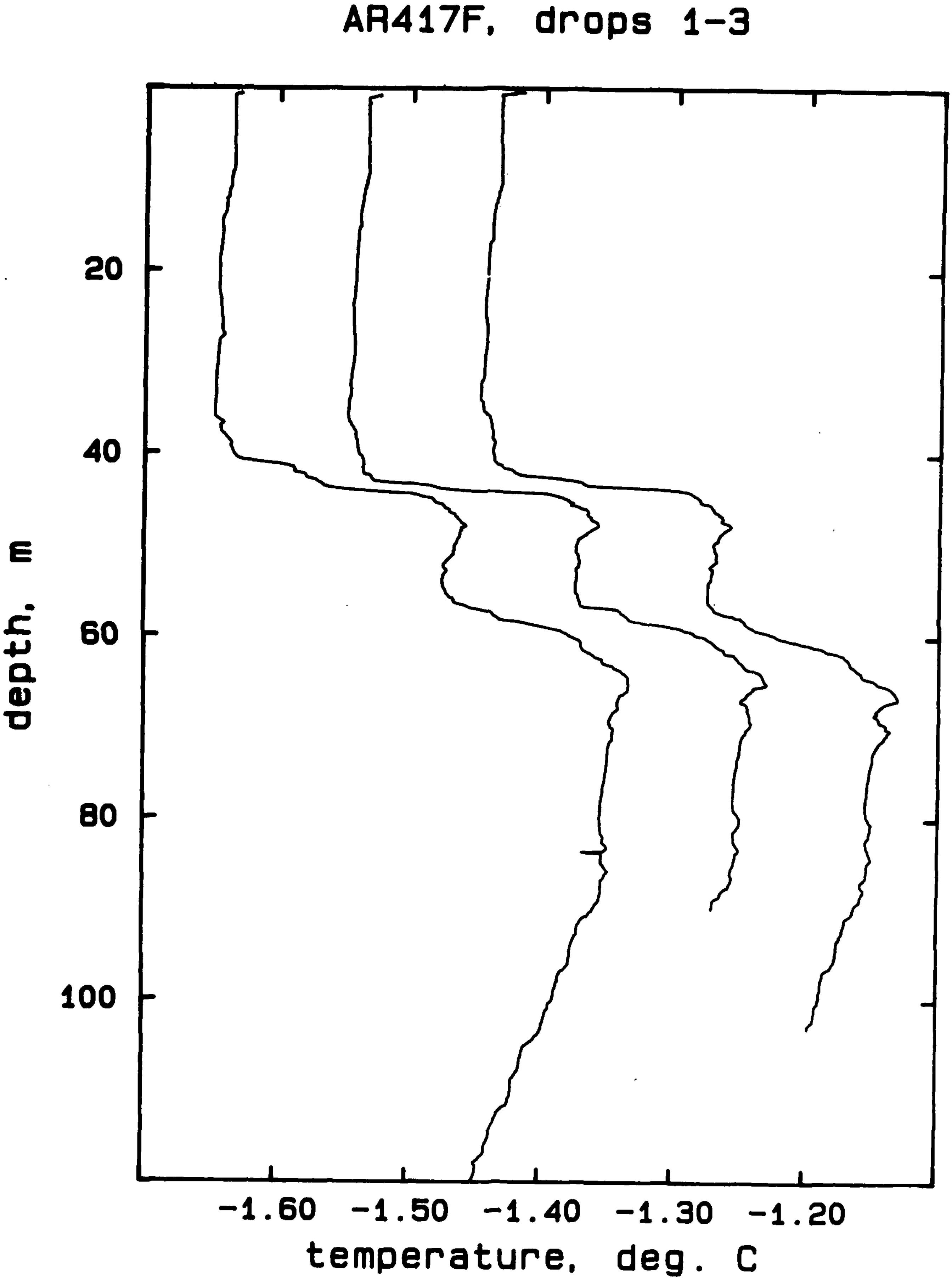

AR417E, drops 13-15
10
20
30
40
50
60
70
80
90
depth, m
-1.56
-1.46
-1.36
-1.26
-1.16
temperature, deg. C

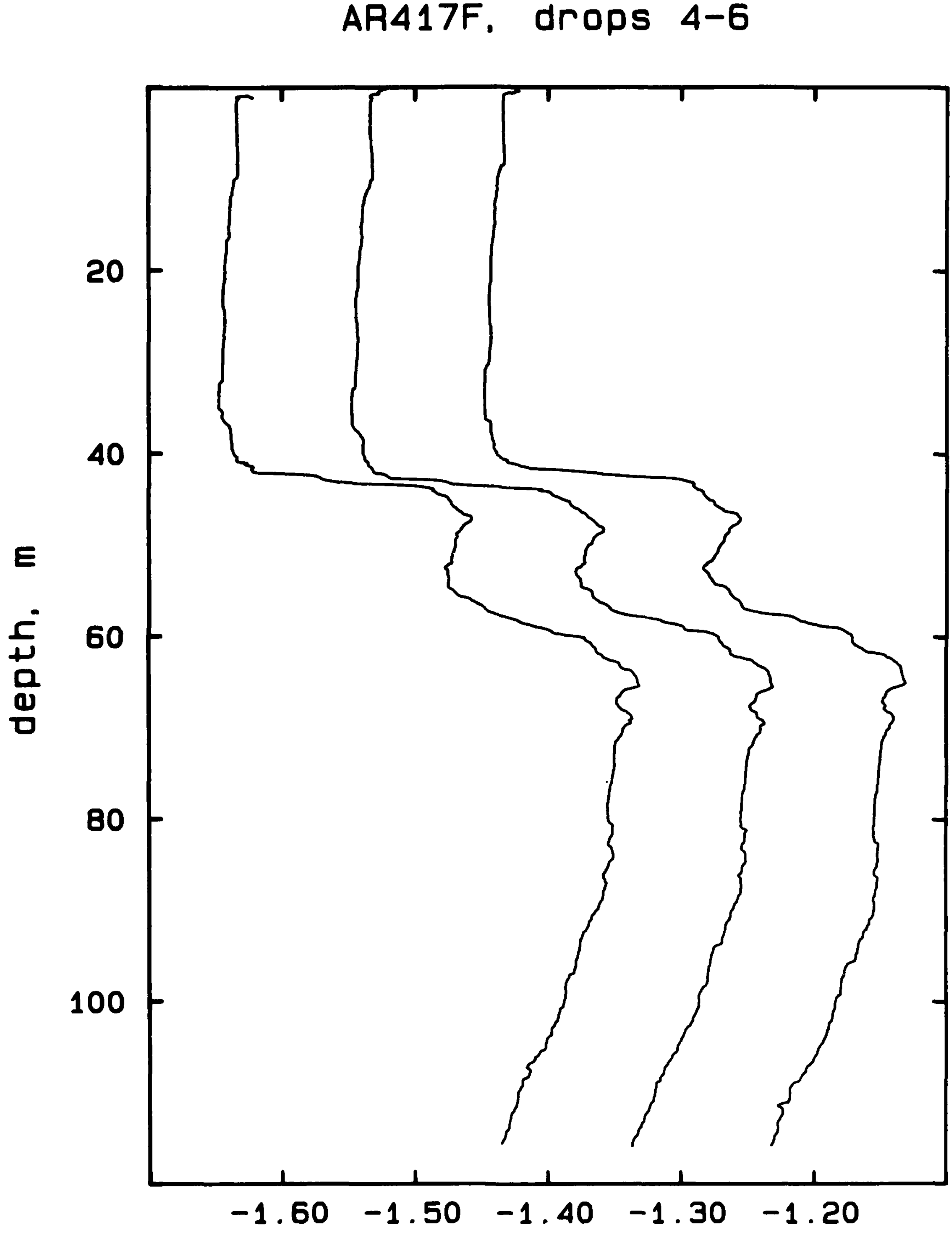

AR417E, drops 16-18
10
20
30
40
50
60
70
80
90
depth, m
-1.60
-1.50
-1.40
-1.30
-1.20
temperature, deg. C

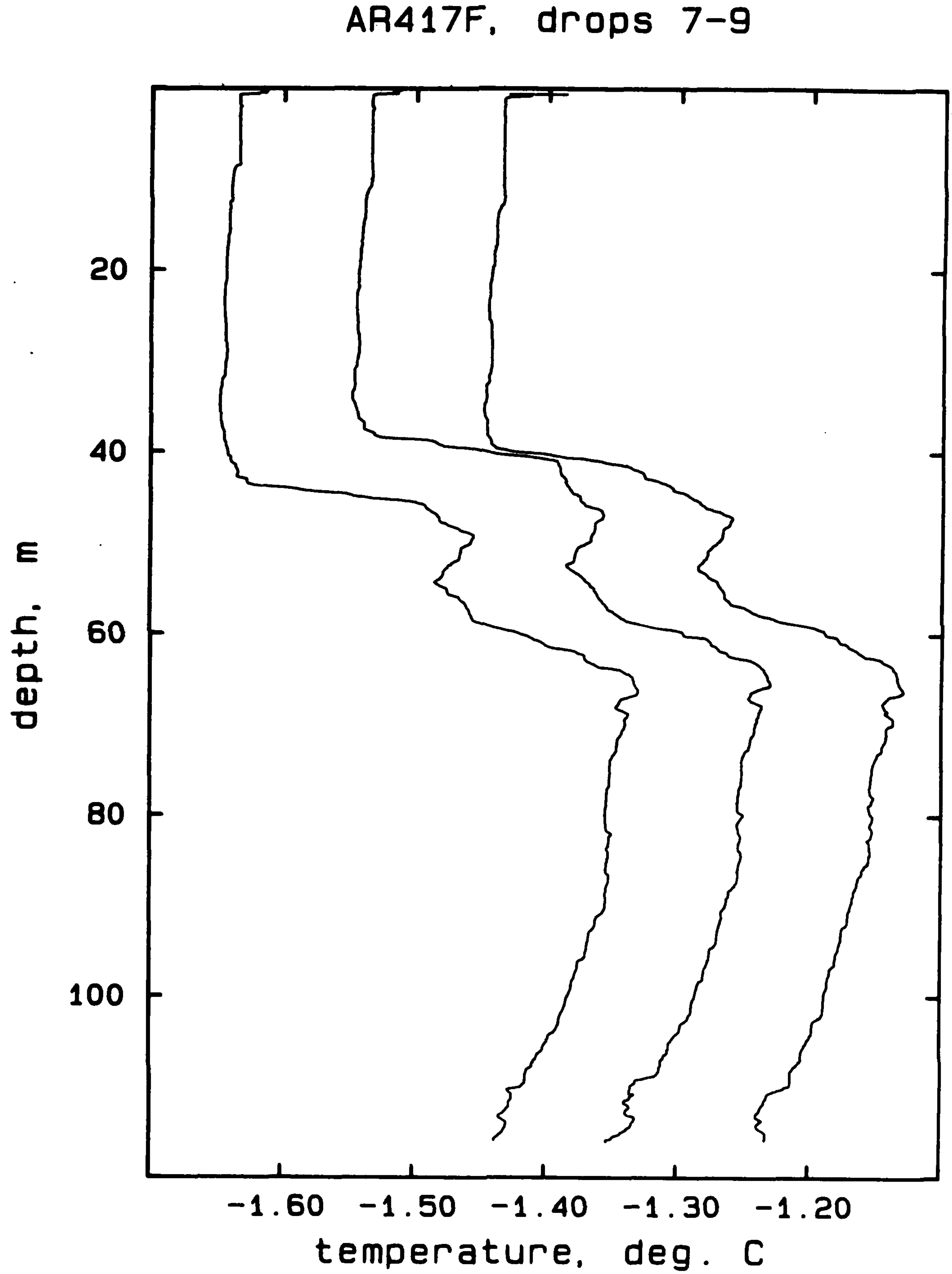

AR417E, drops 19-21
10
20
30
40
50
60
70
80
90
depth, m
-1.60
-1.50
-1.40
-1.30
-1.20
temperature, deg. C

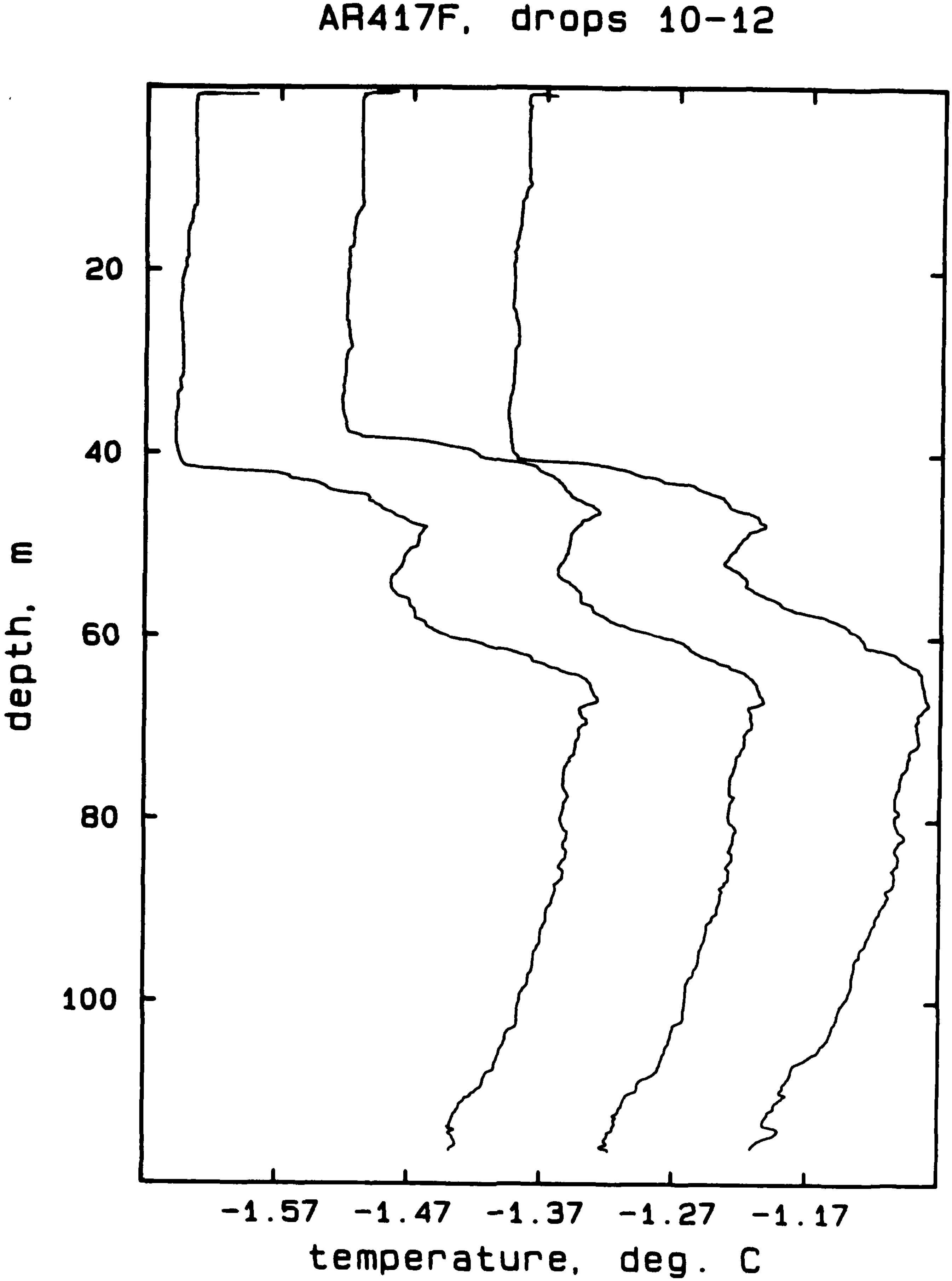

AR417E, drops 22-24
10
20
30
40
50
60
70
80
90
depth, m
-1.60
-1.50
-1.40
-1.30
-1.20
temperature, deg. C

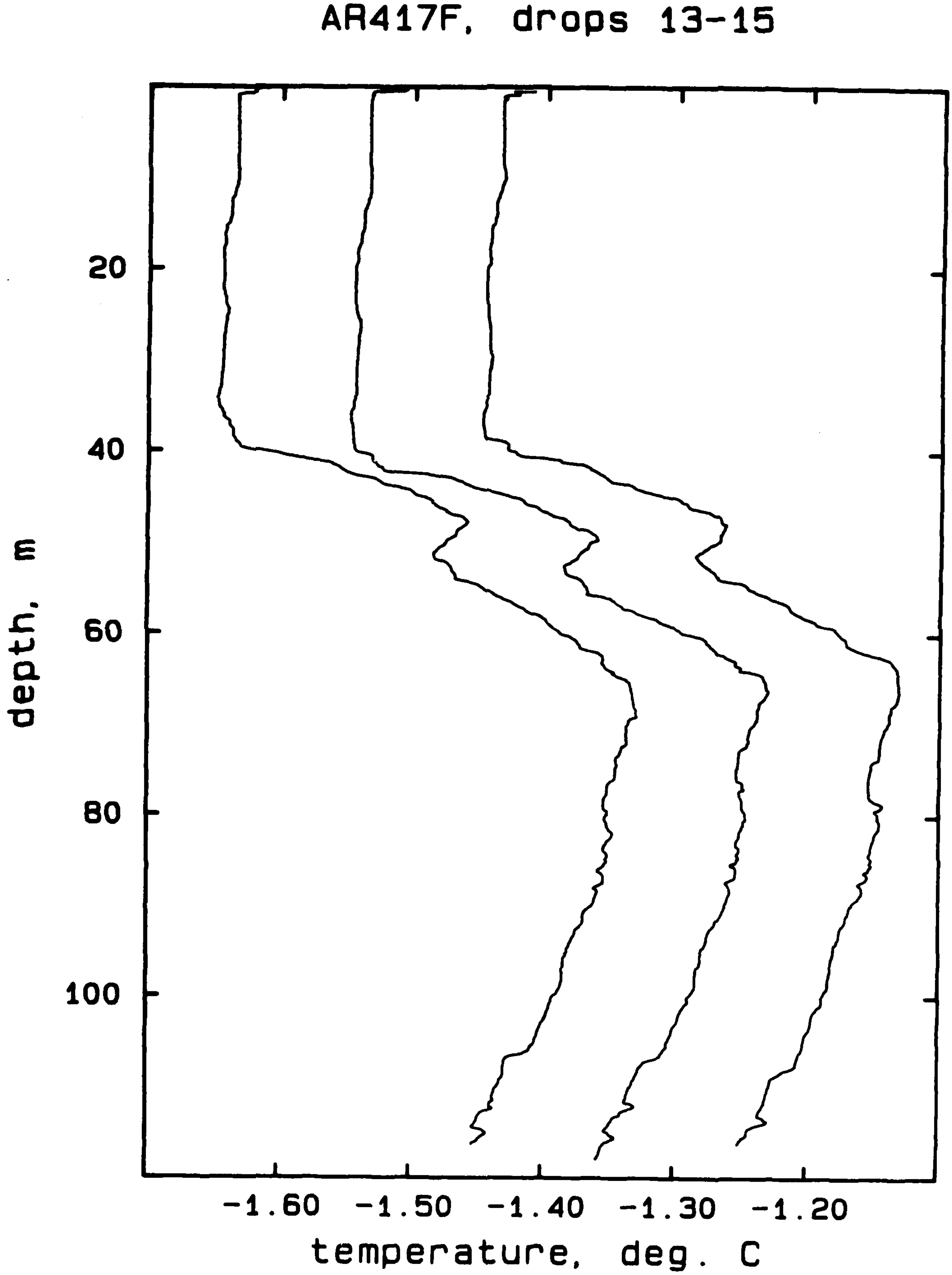

AR417F, drops 1, 18
50
100
150
200
250
300
350
depth, m
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C

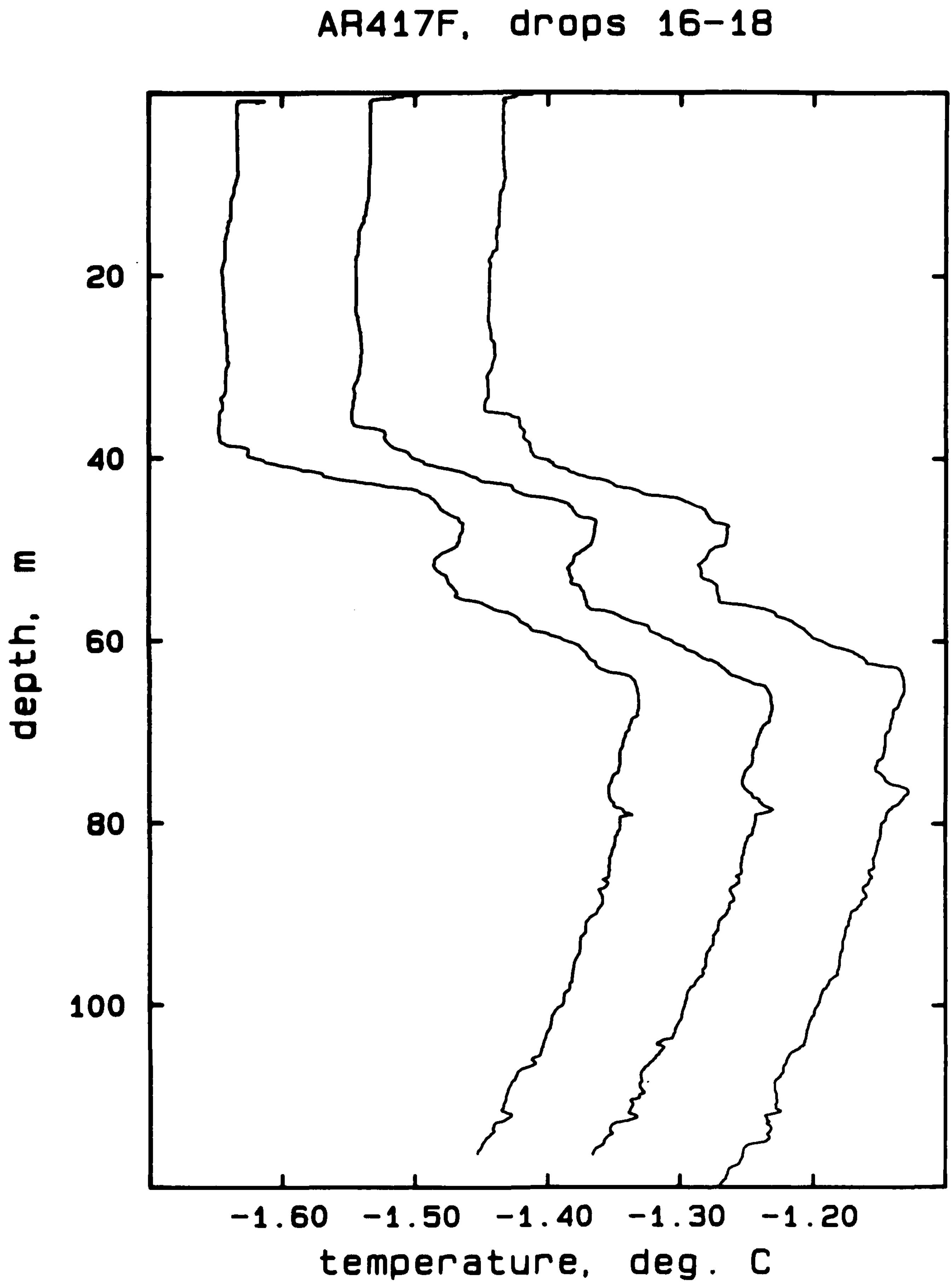

AR417F, drops 1-3
depth, m
20
40
60
80
100
-1.60
-1.50
-1.40
-1.30
-1.20
temperature, deg. C

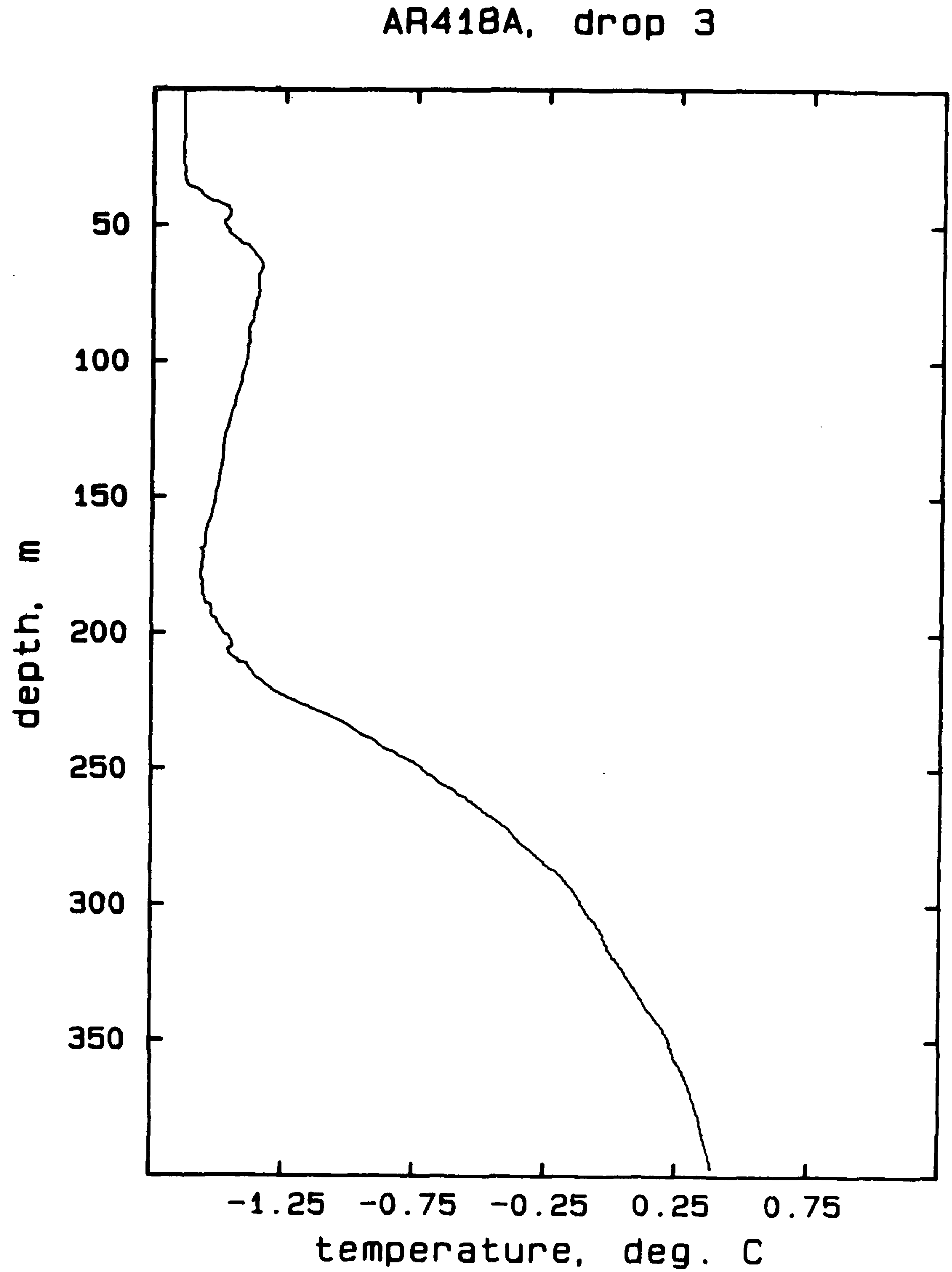

AR417F, drops 4-6
20
40
60
80
100
depth, m
-1.60
-1.50
-1.40
-1.30
-1.20
temperature, deg. C

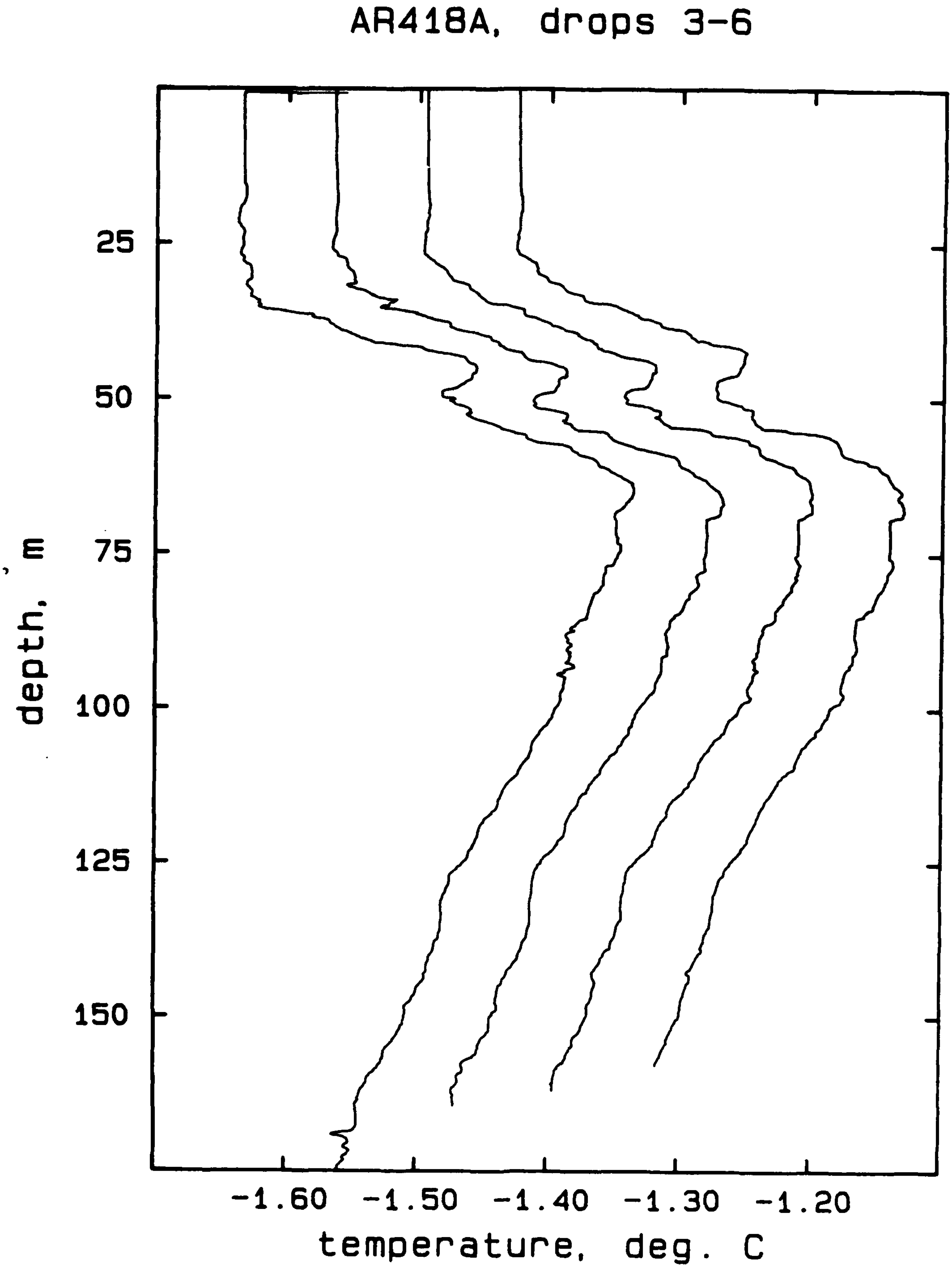

AR417F, drops 7-9
20
40
60
80
100
depth, m
-1.60
-1.50
-1.40
-1.30
-1.20
temperature, deg. C

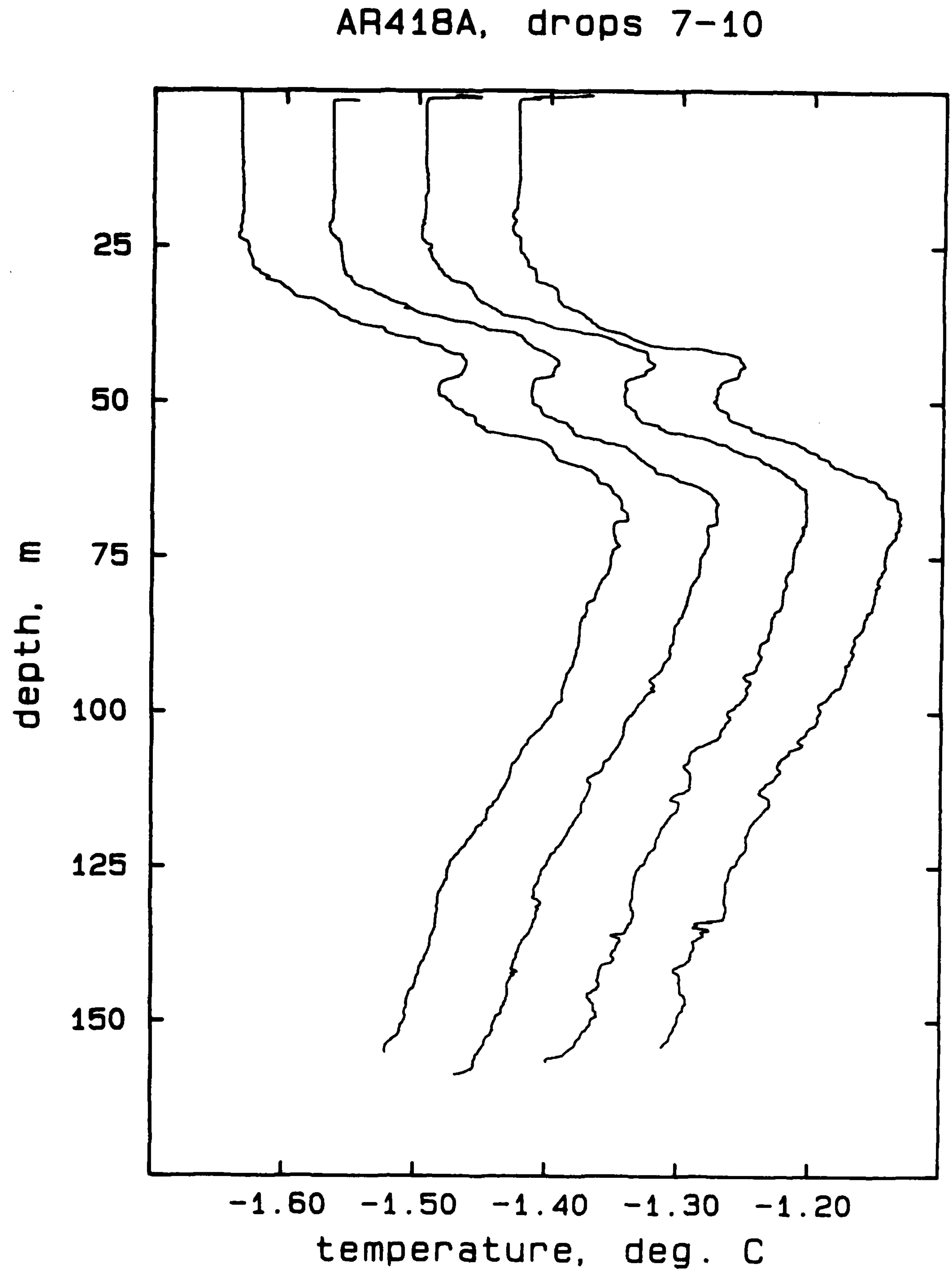

AR417F, drops 10-12
20
40
60
80
100
depth, m
-1.57
-1.47
-1.37
-1.27
-1.17
temperature, deg. C

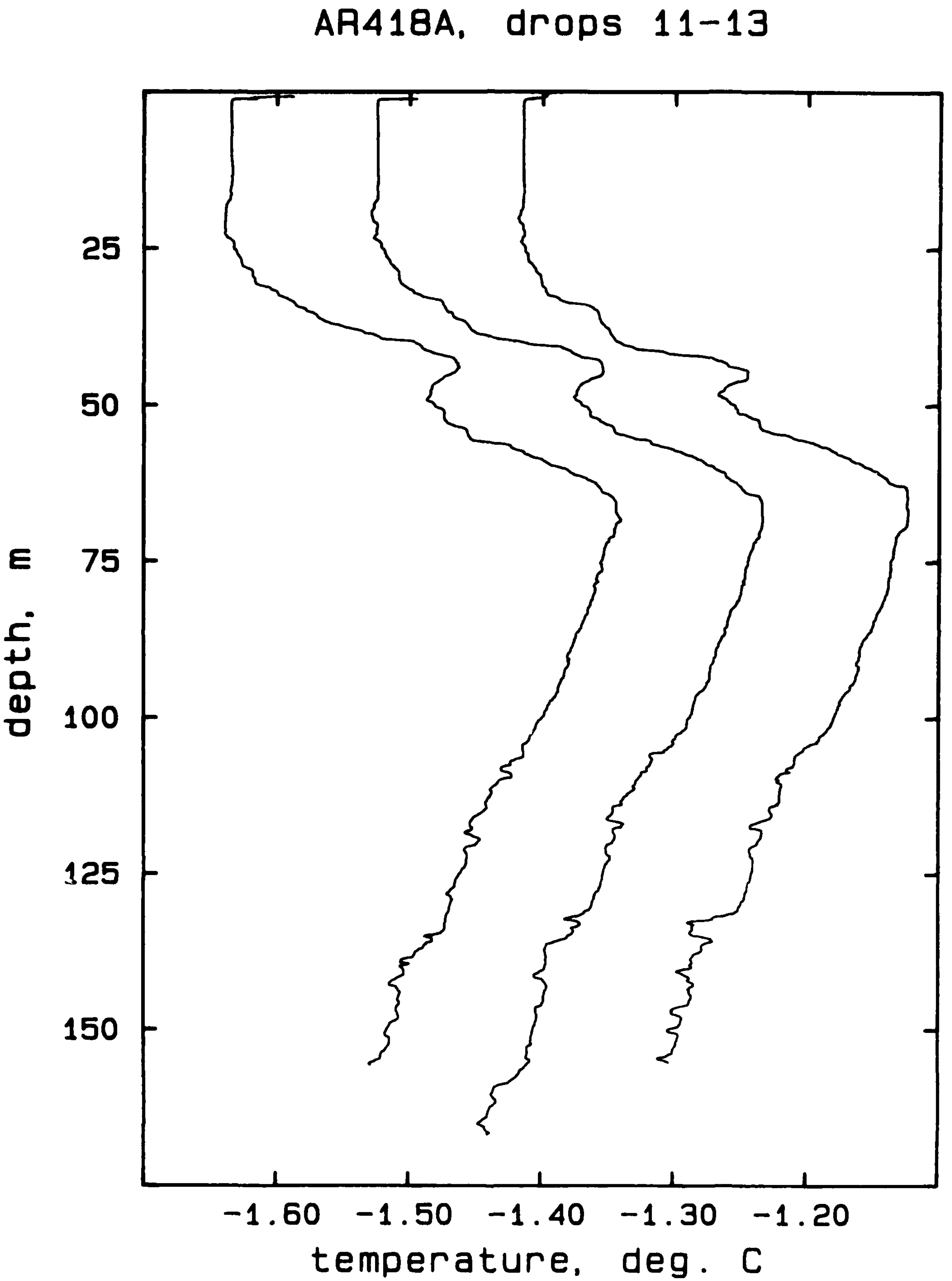

AR417F, drops 13-15
depth, m
20
40
60
80
100
-1.60
-1.50
-1.40
-1.30
-1.20
temperature, deg. C


AR417F, drops 16-18
20
40
60
80
100
depth, m
-1.60
-1.50
-1.40
-1.30
-1.20
temperature, deg. C

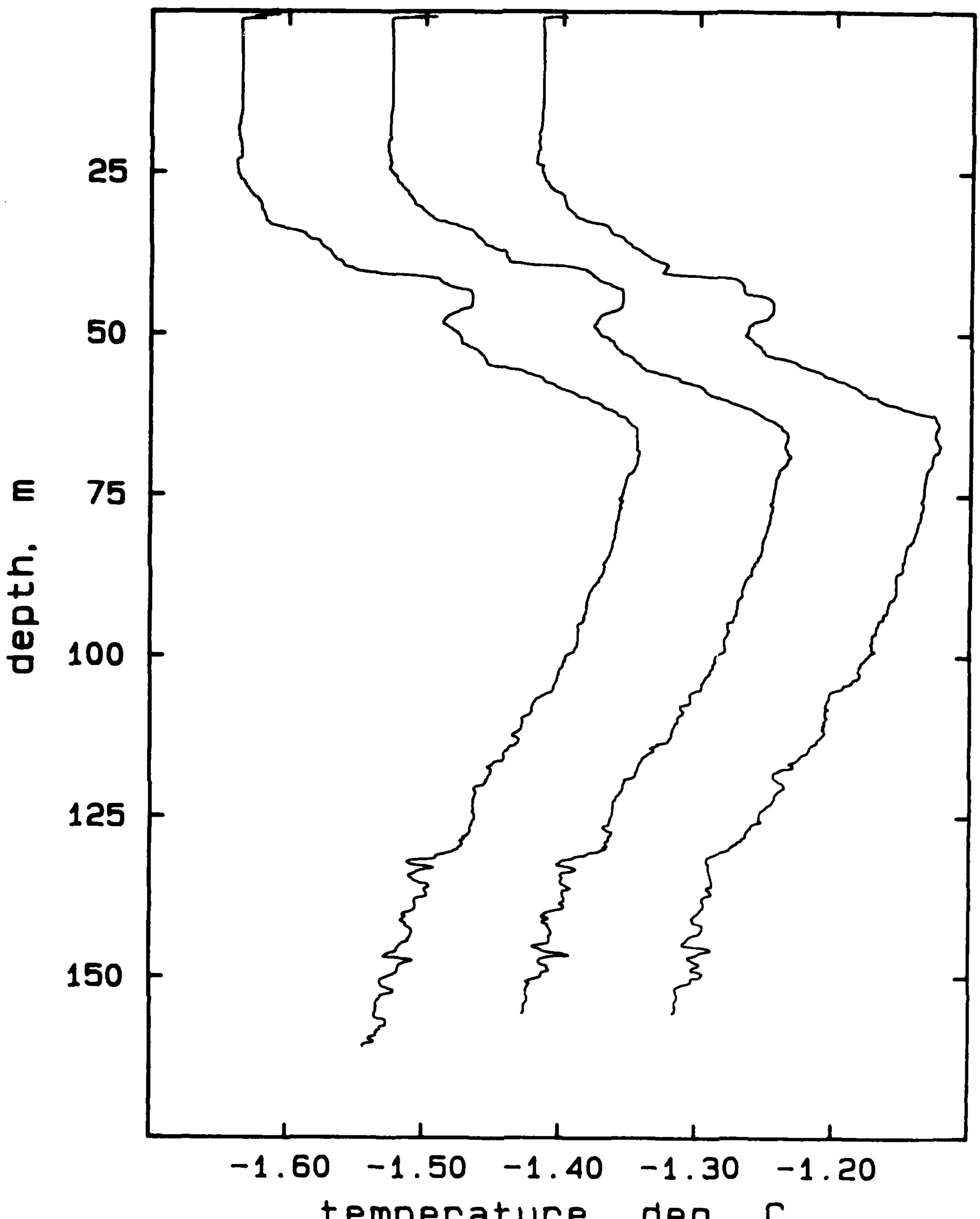

AR418A, drop 3
50
100
150
200
250
300
350
depth, m
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C

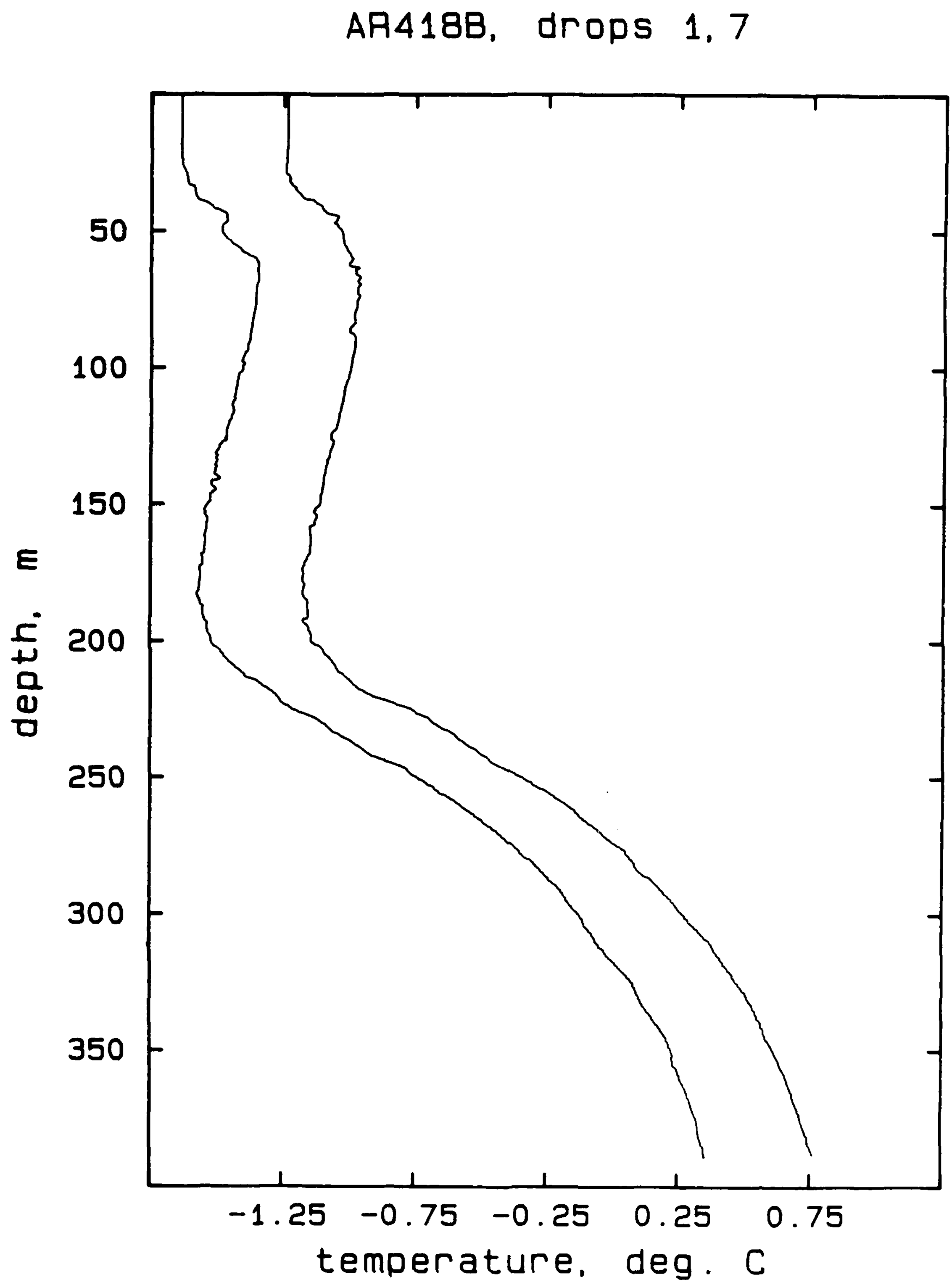

AR418A, drops 3-6
depth, m
25
50
75
100
125
150
-1.60
-1.50
-1.40
-1.30
-1.20
temperature, deg. C

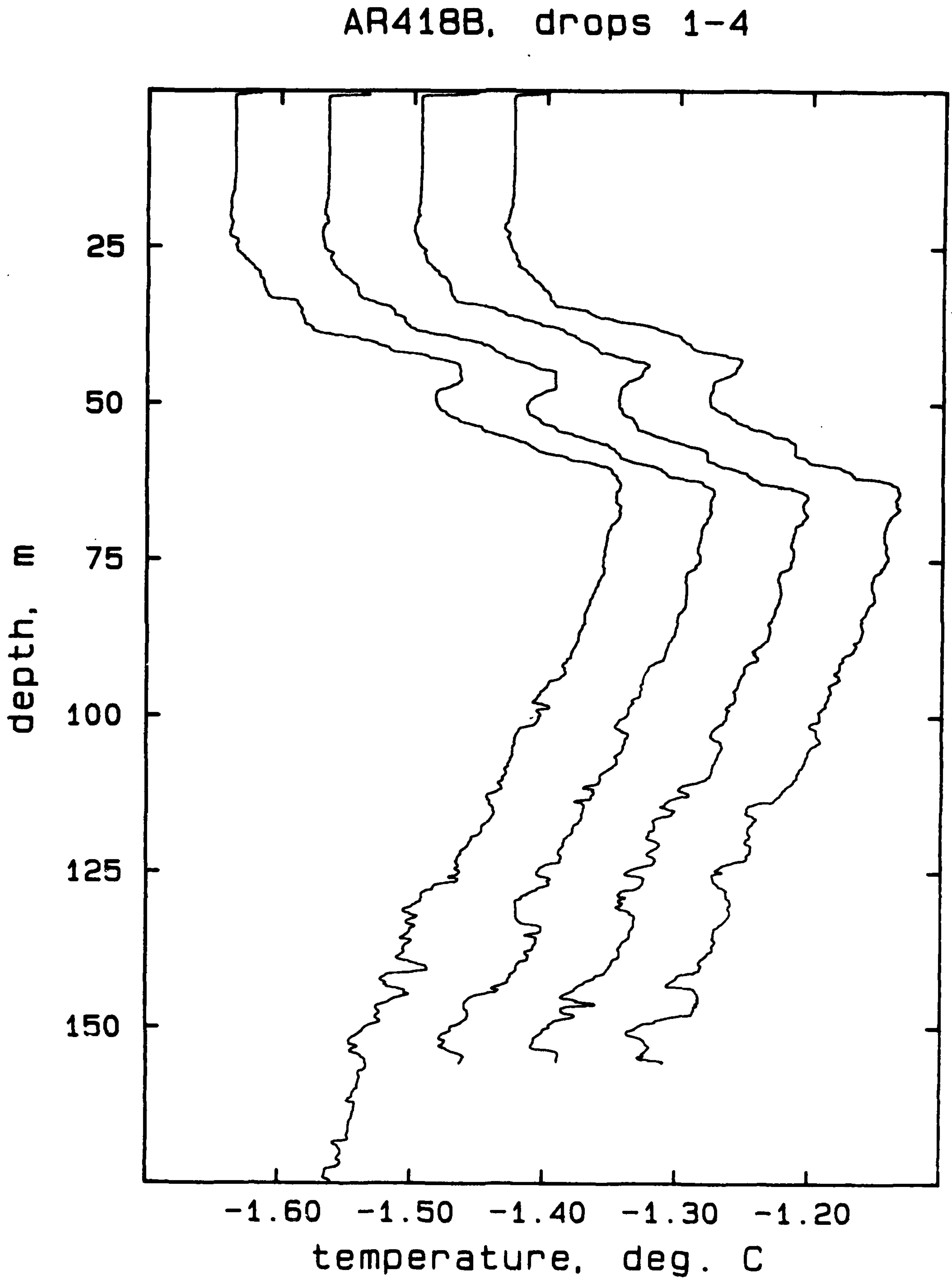

AR418A, drops 7-10
25
50
75
100
125
150
depth, m
-1.60
-1.50
-1.40
-1.30
-1.20
temperature, deg. C


AR418A, drops 11-13
25
50
75
100
125
150
depth, m
-1.60
-1.50
-1.40
-1.30
-1.20
temperature, deg. C

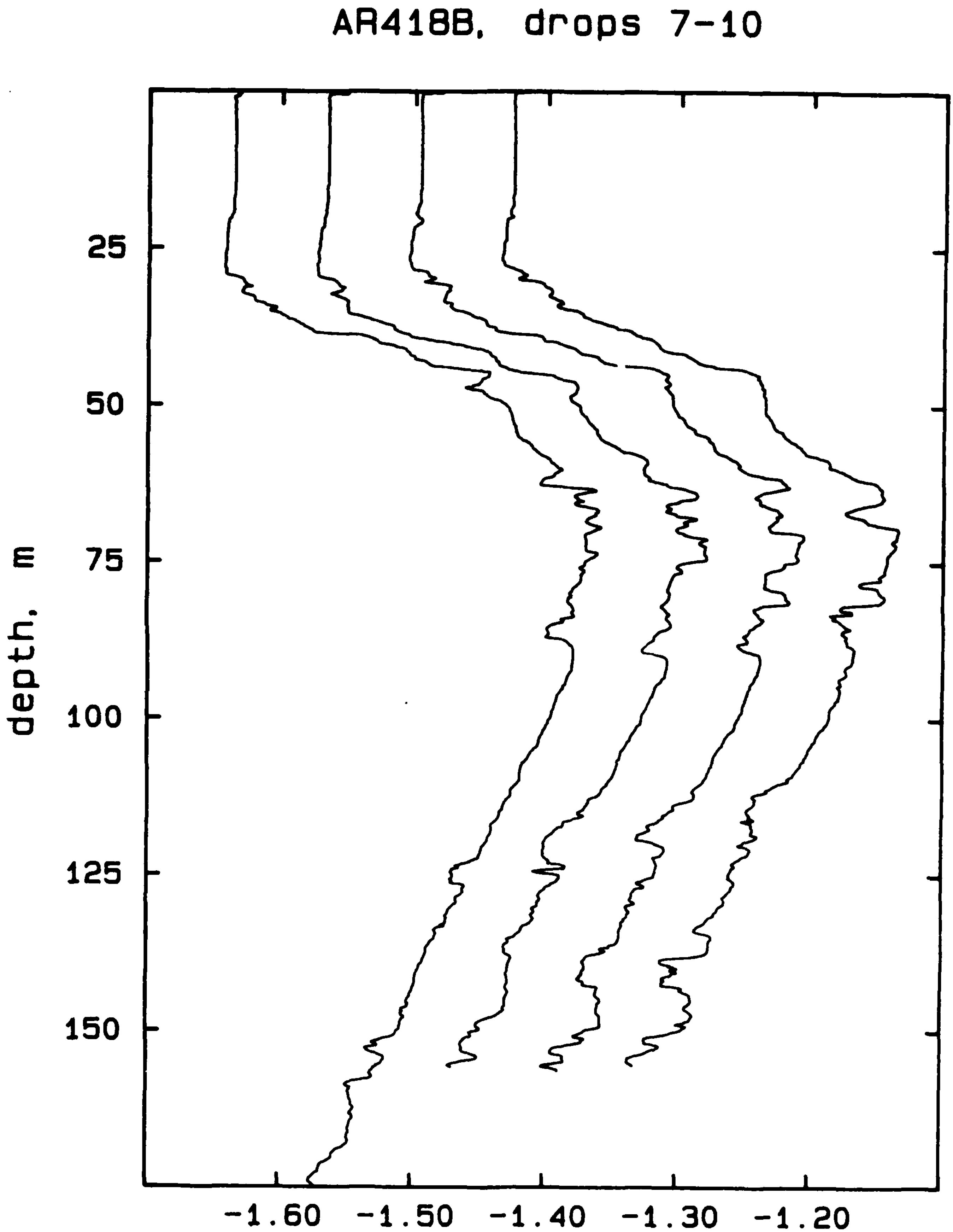
AR418A, drops 14-16

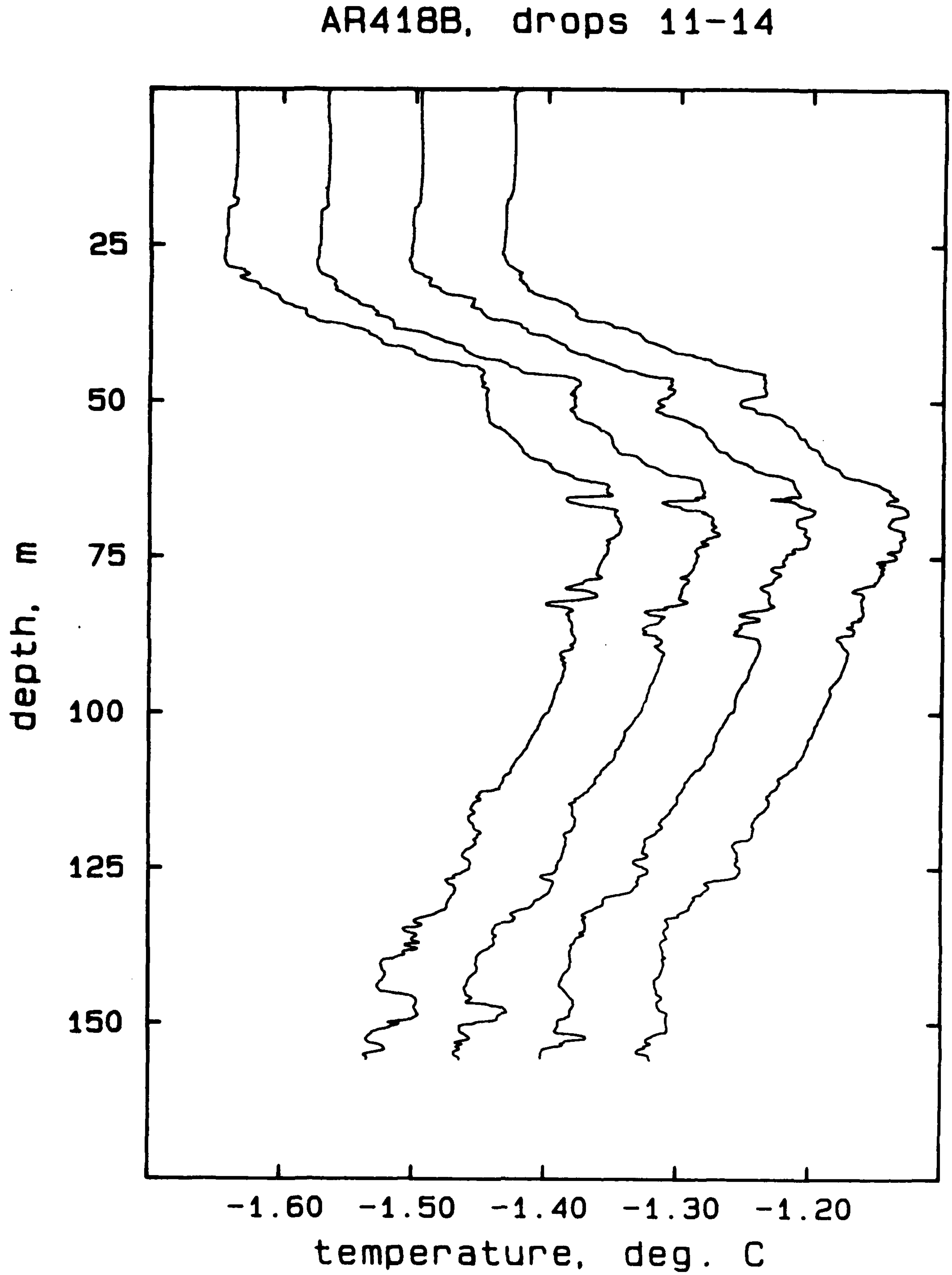


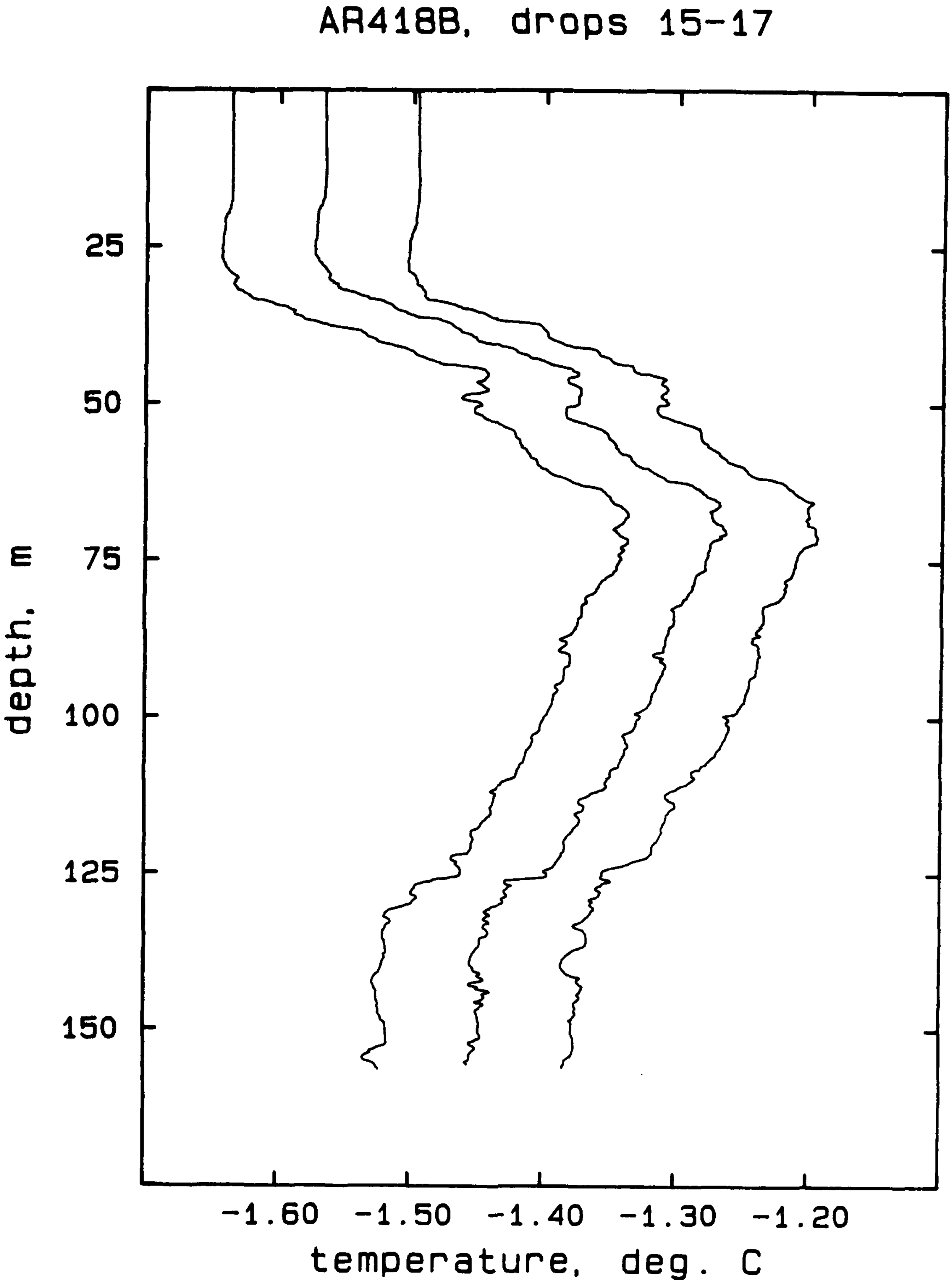

AR418B, drops 1, 7
depth, m
50
100
150
200
250
300
350
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C

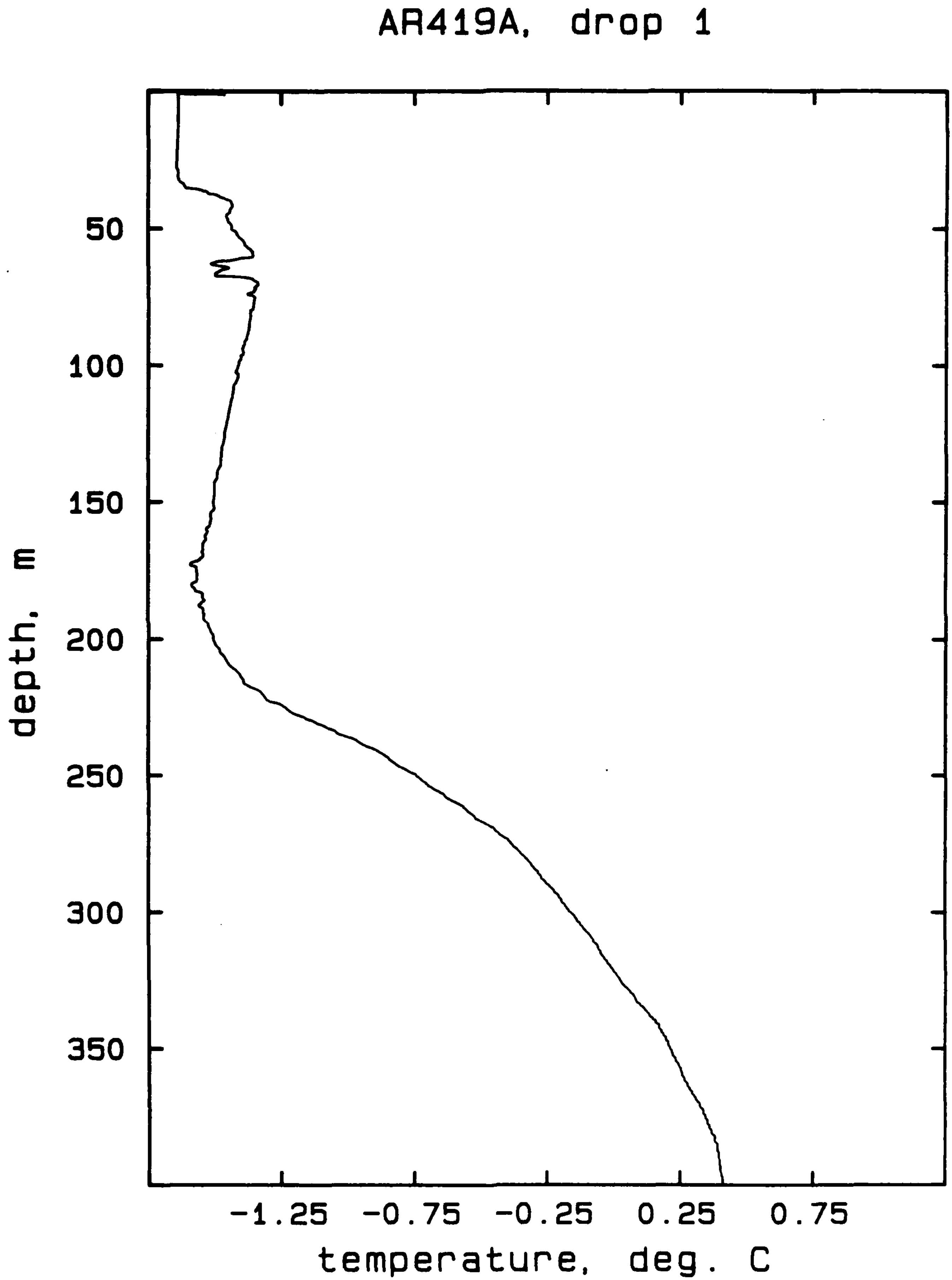


AR418B, drops 1-4
25
50
75
100
125
150
depth, m
-1.60
-1.50
-1.40
-1.30
-1.20
temperature, deg. C

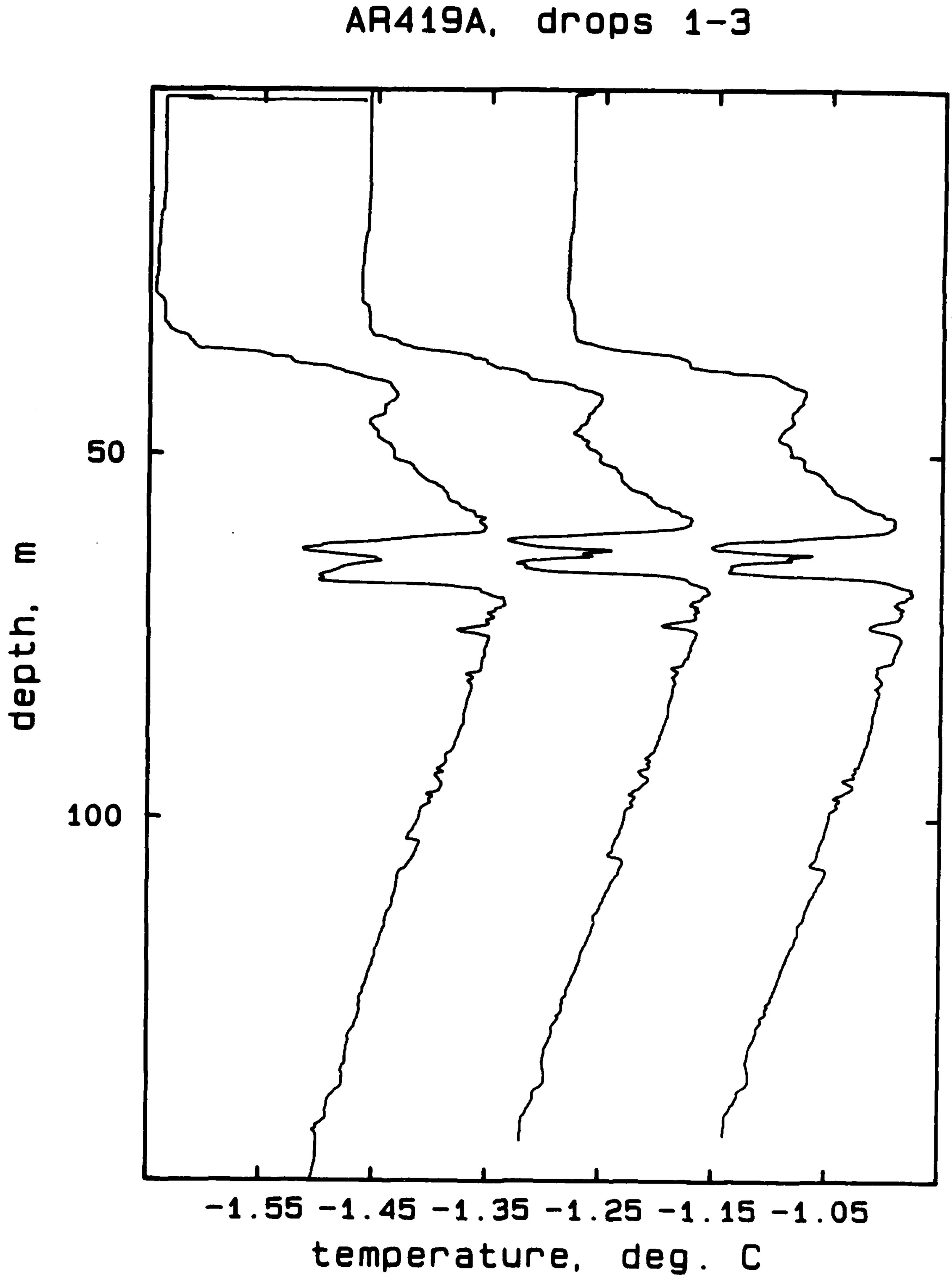

AR418B, drops 7-10
depth, m
25
50
75
100
125
150
-1.60
-1.50
-1.40
-1.30
-1.20
temperature, deg. C

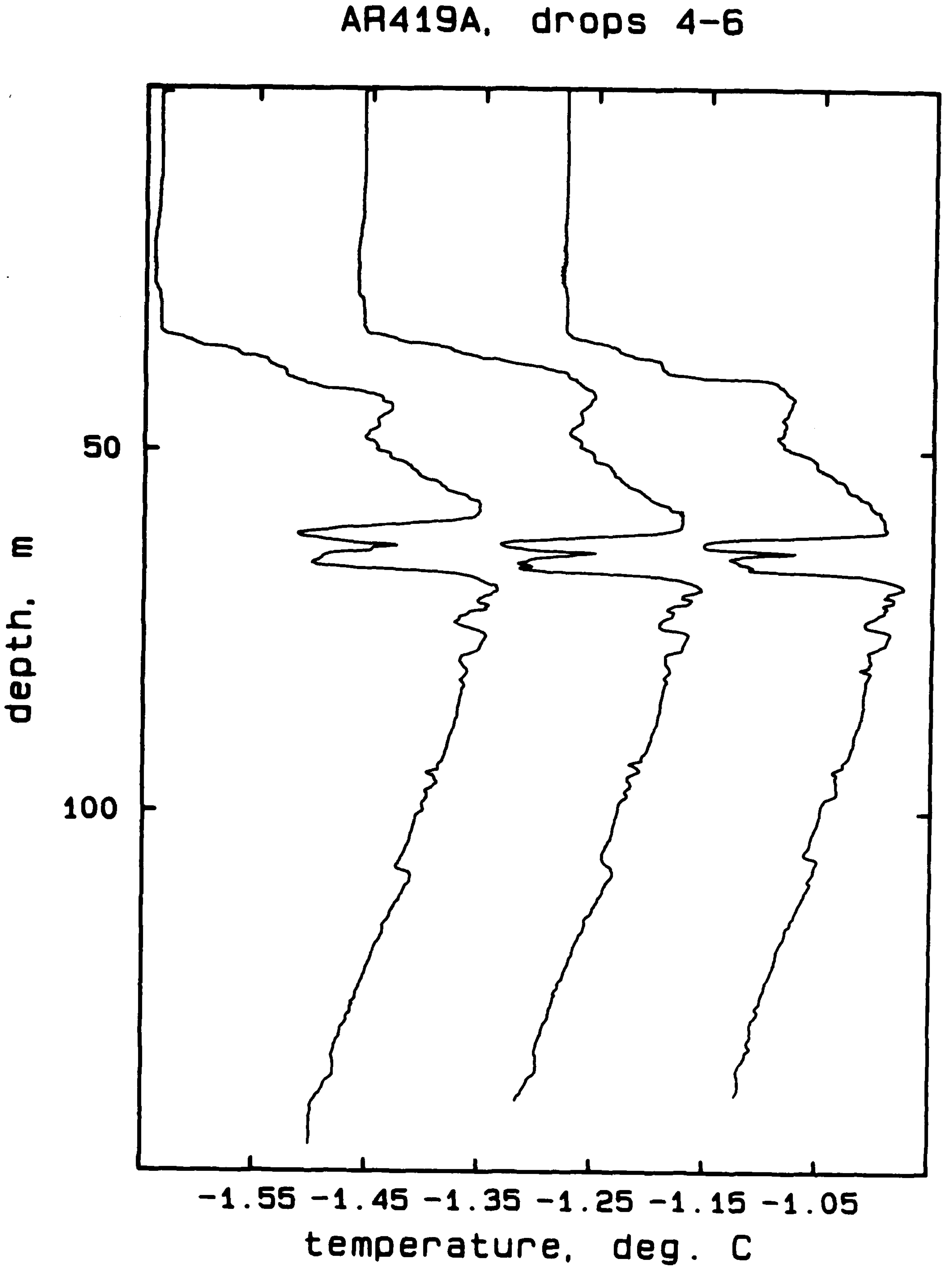

AR418B, drops 11-14
depth, m
25
50
75
100
125
150
-1.60
-1.50
-1.40
-1.30
-1.20
temperature, deg. C

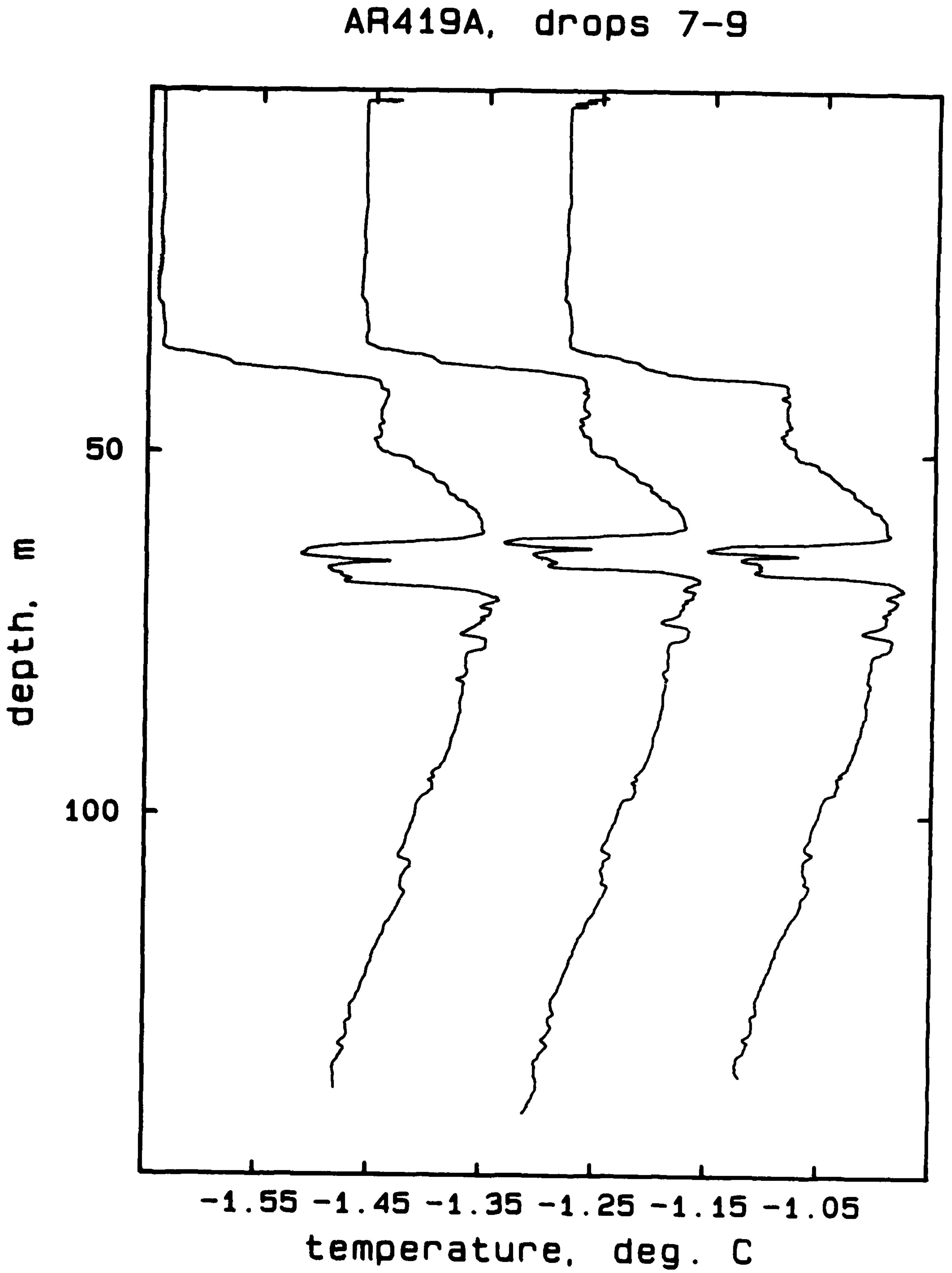

AR418B, drops 15-17
depth, m
25
50
75
100
125
150
-1.60
-1.50
-1.40
-1.30
-1.20
temperature, deg. C

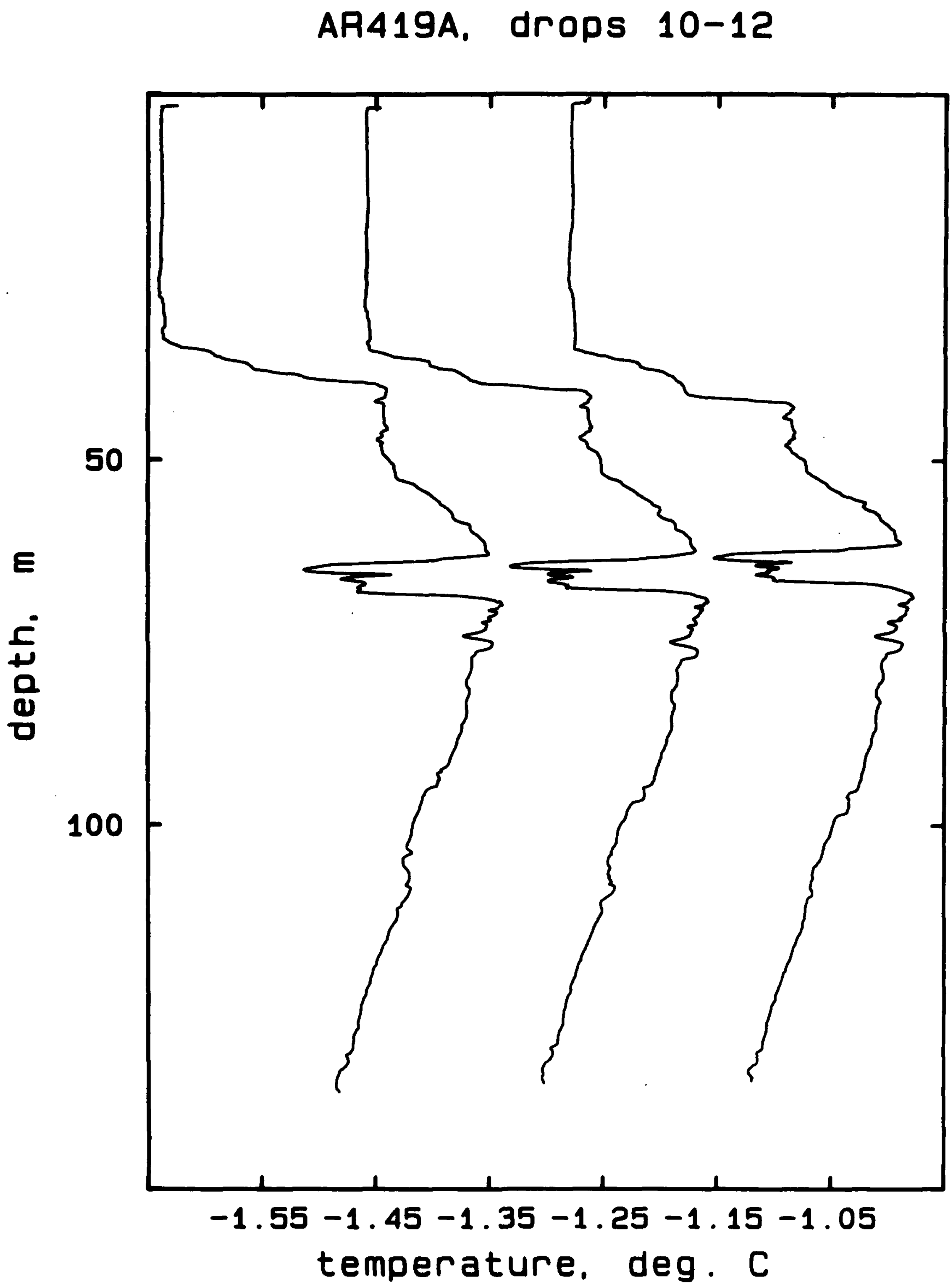


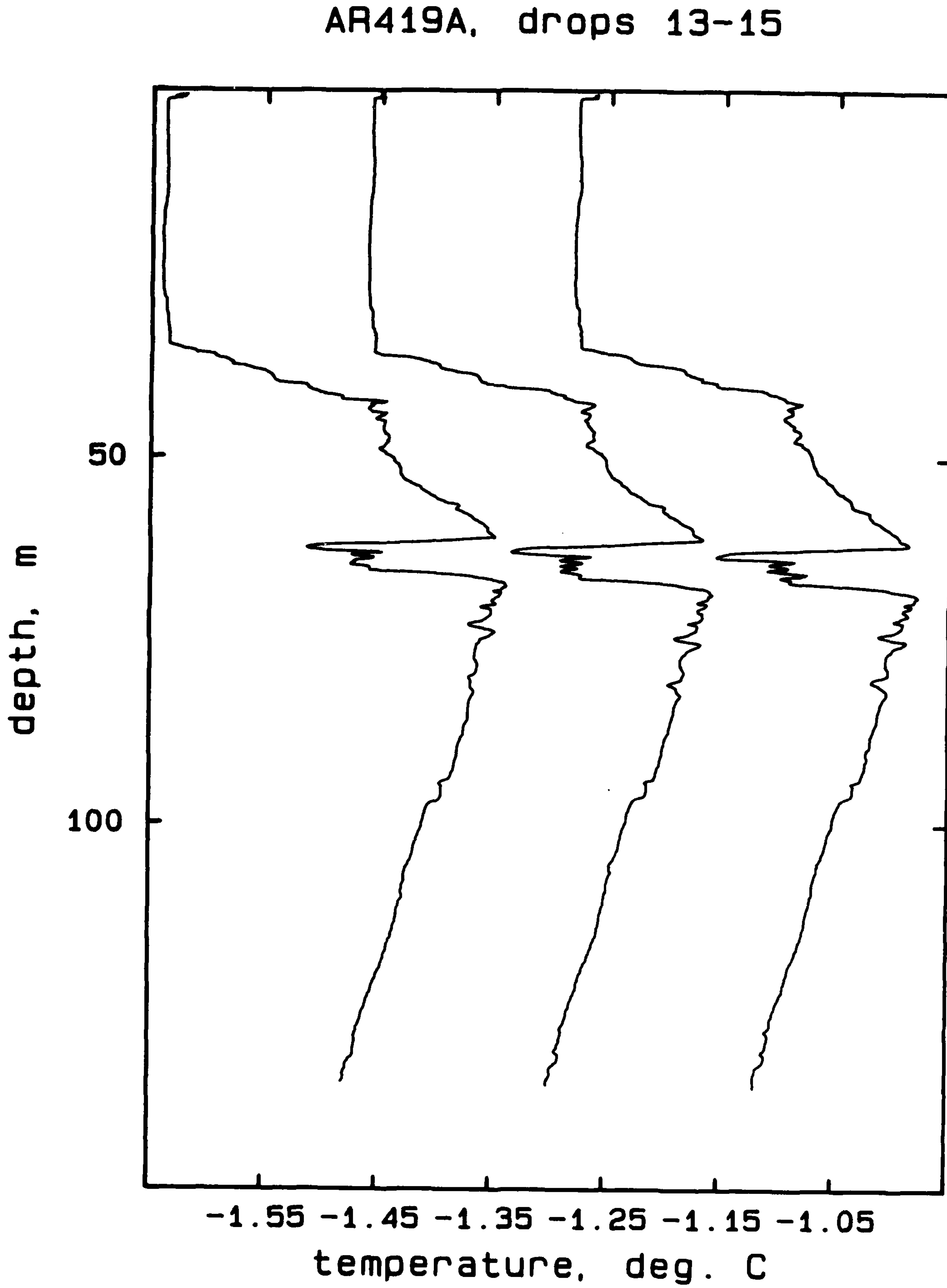
AR419A, drop 1
depth, m
50
100
150
200
250
300
350
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C


AR419A, drops 1-3
50
100
depth, m
-1.55 -1.45 -1.35 -1.25 -1.15 -1.05
temperature, deg. C

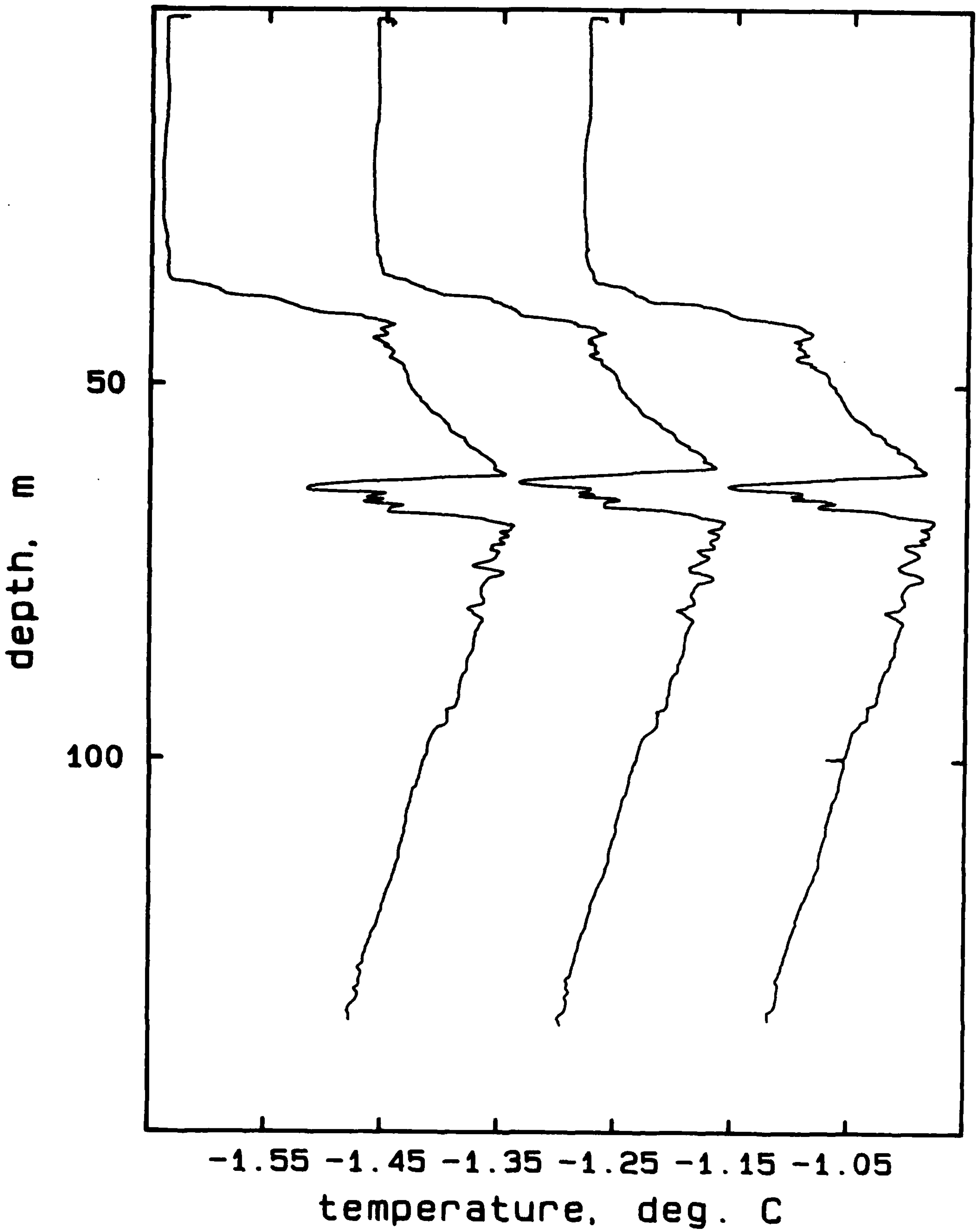

AR419A, drops 4-6
depth, m
50
100
-1.55 -1.45 -1.35 -1.25 -1.15 -1.05
temperature, deg. C

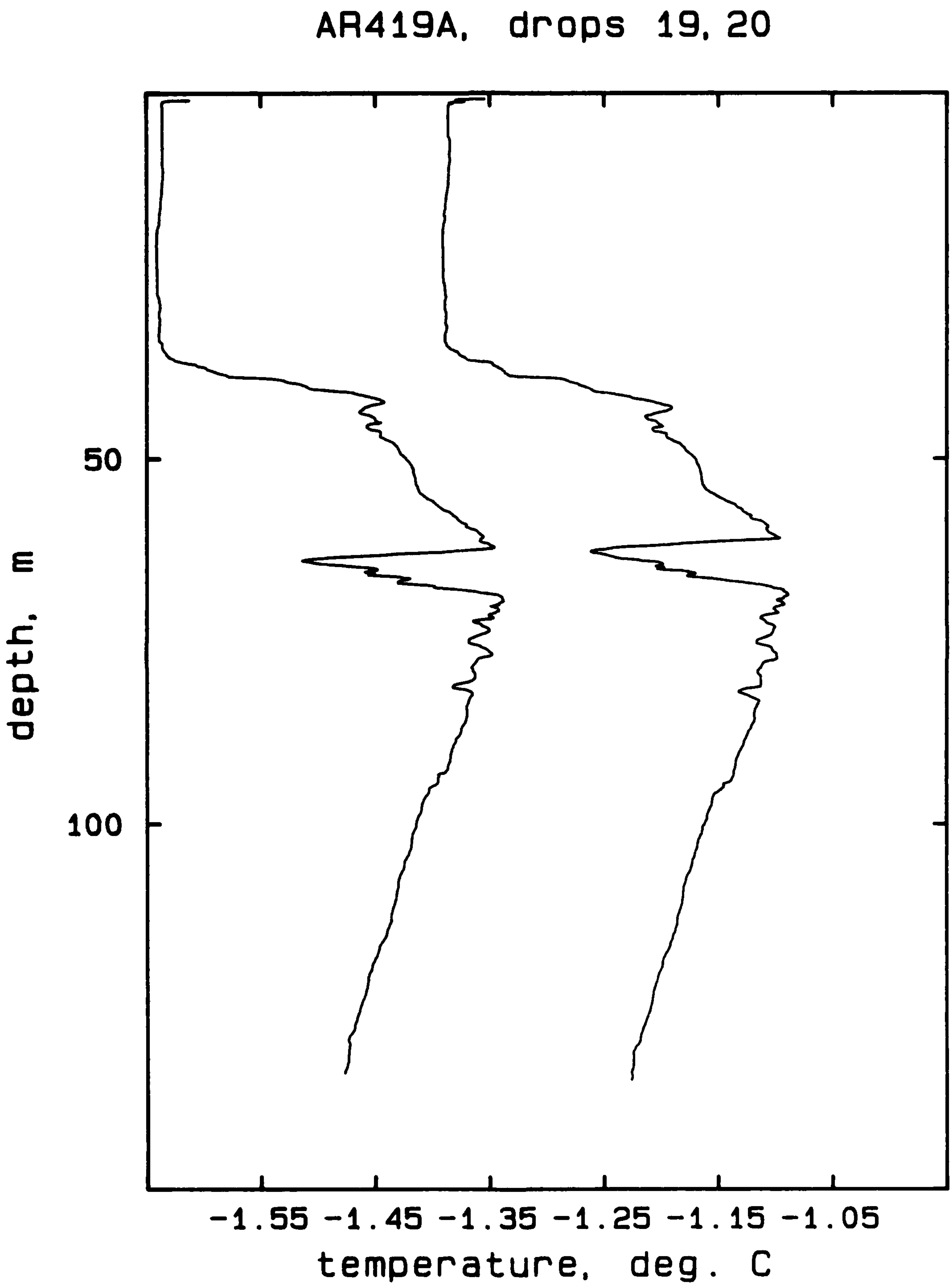

AR419A, drops 7-9
50
100
depth, m
-1.55 -1.45 -1.35 -1.25 -1.15 -1.05
temperature, deg. C

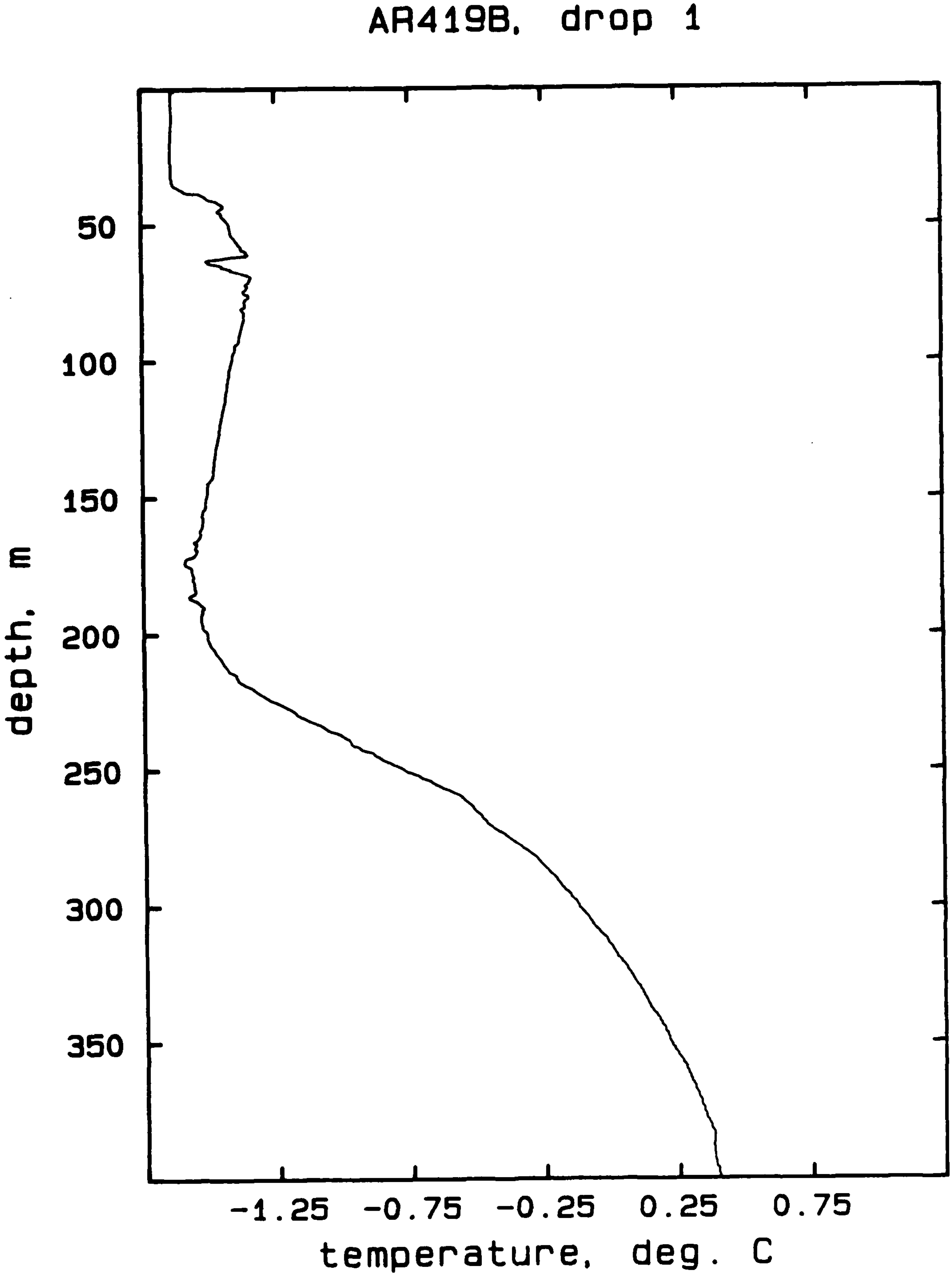

AR419A, drops 10-12
50
100
depth, m
-1.55 -1.45 -1.35 -1.25 -1.15 -1.05
temperature, deg. C

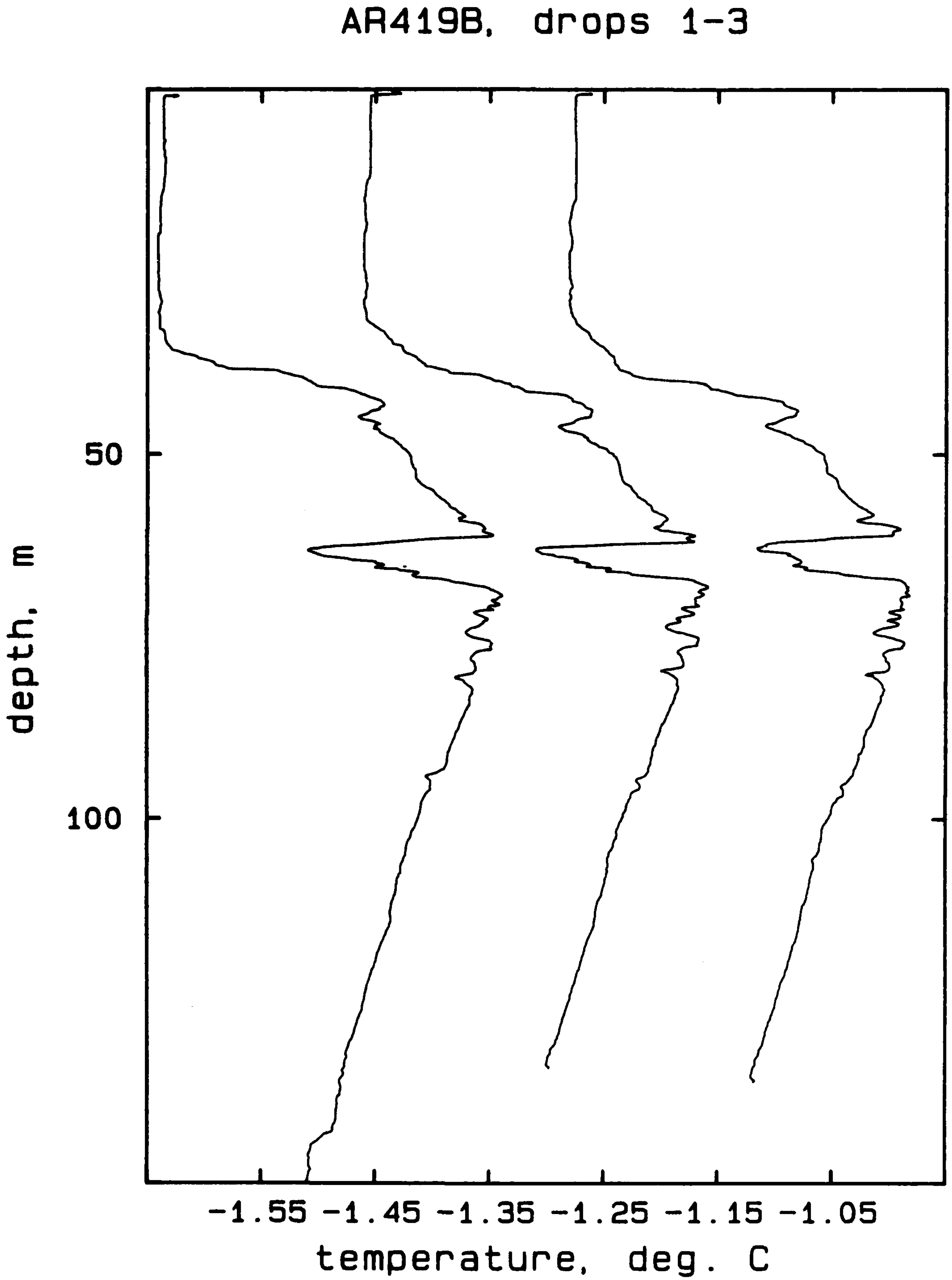

AR419A, drops 13-15
depth, m
50
100
-1.55 -1.45 -1.35 -1.25 -1.15 -1.05
temperature, deg. C

AR419A, drops 16-18



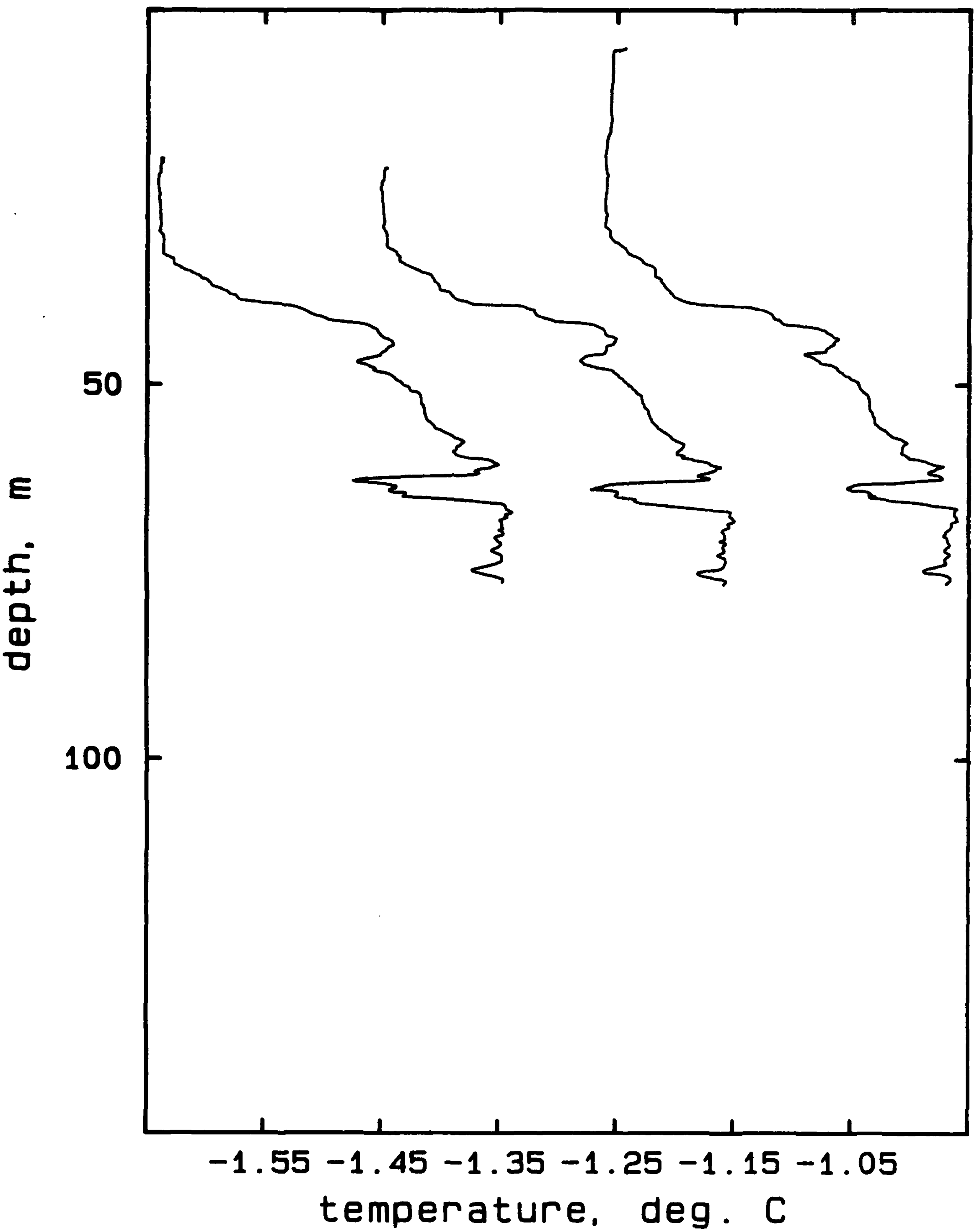

AR419A, drops 19, 20
50
100
depth, m
-1.55 -1.45 -1.35 -1.25 -1.15 -1.05
temperature, deg. C

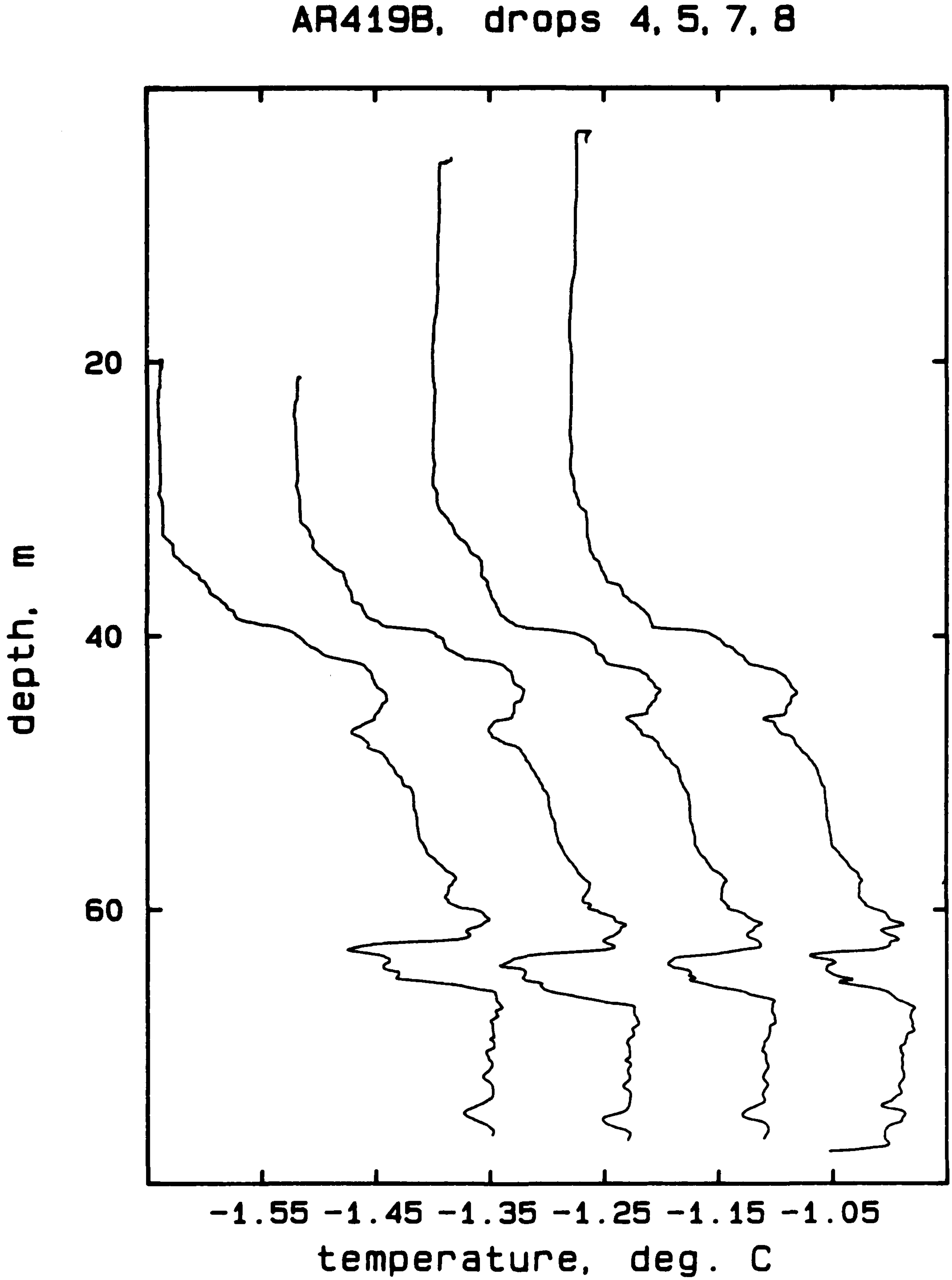

AR419B, drop 1
50
100
150
200
250
300
350
depth, m
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C

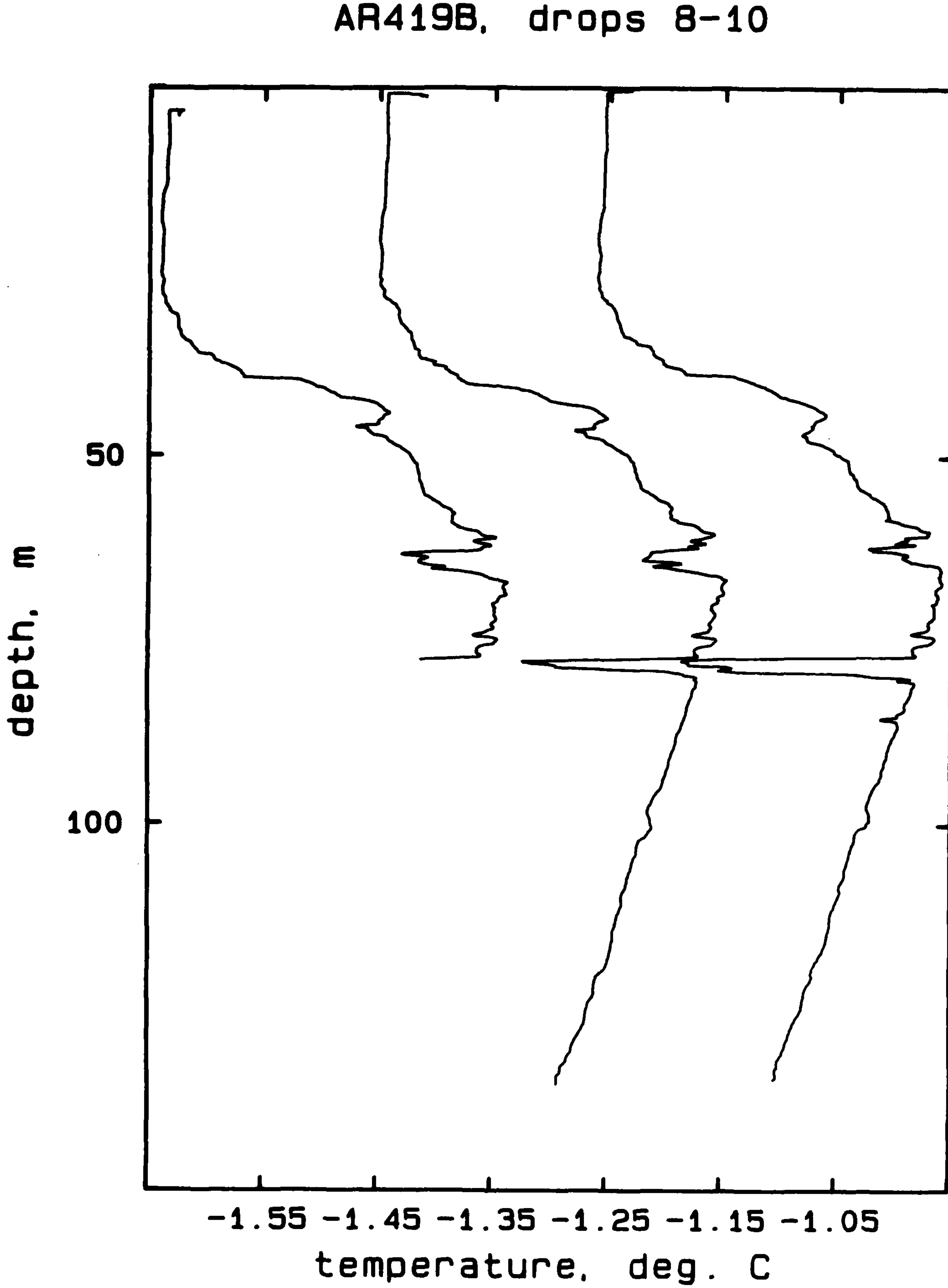


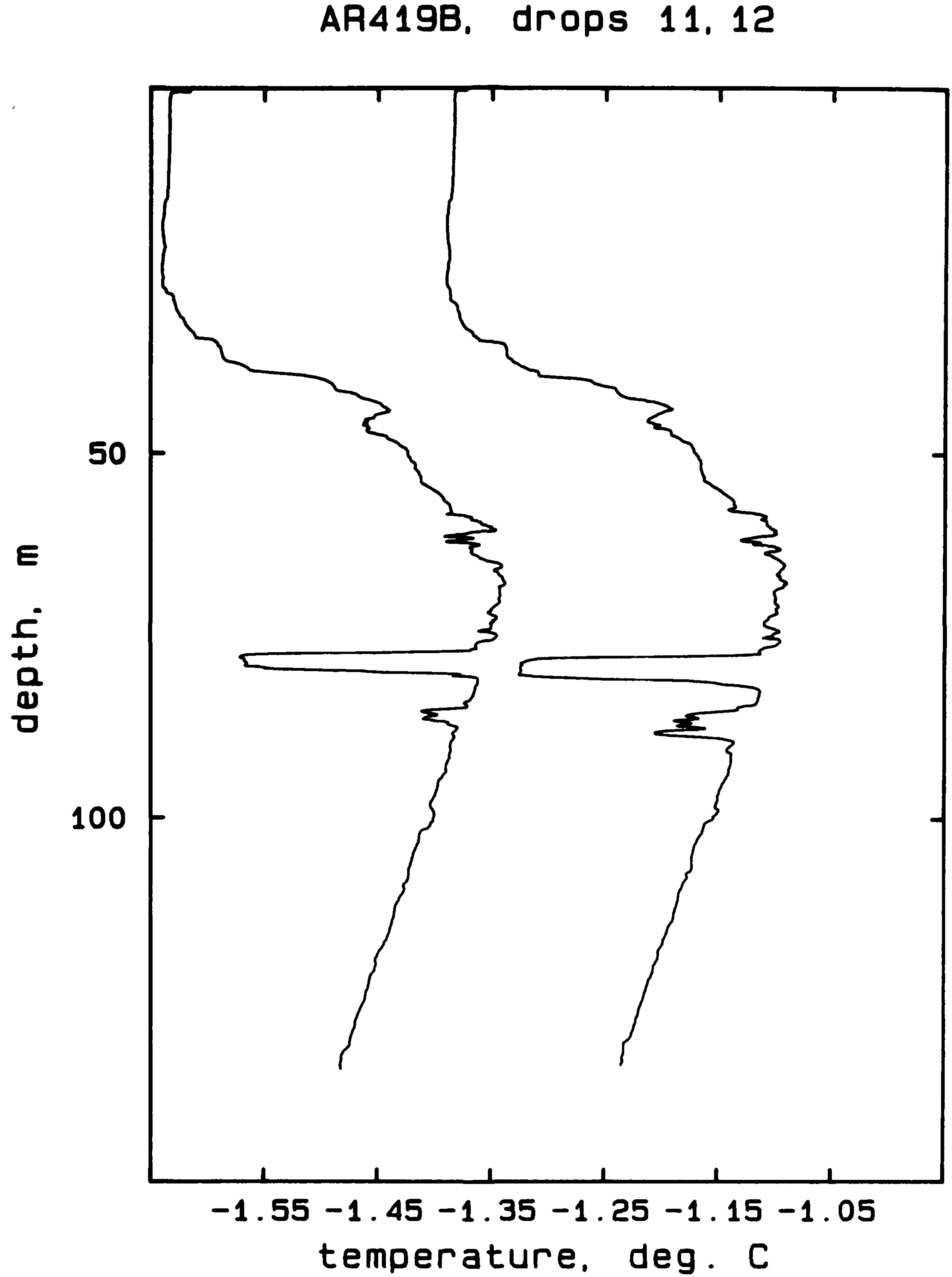
AR419B, drops 1-3
depth, m
50
100
-1.55 -1.45 -1.35 -1.25 -1.15 -1.05
temperature, deg. C

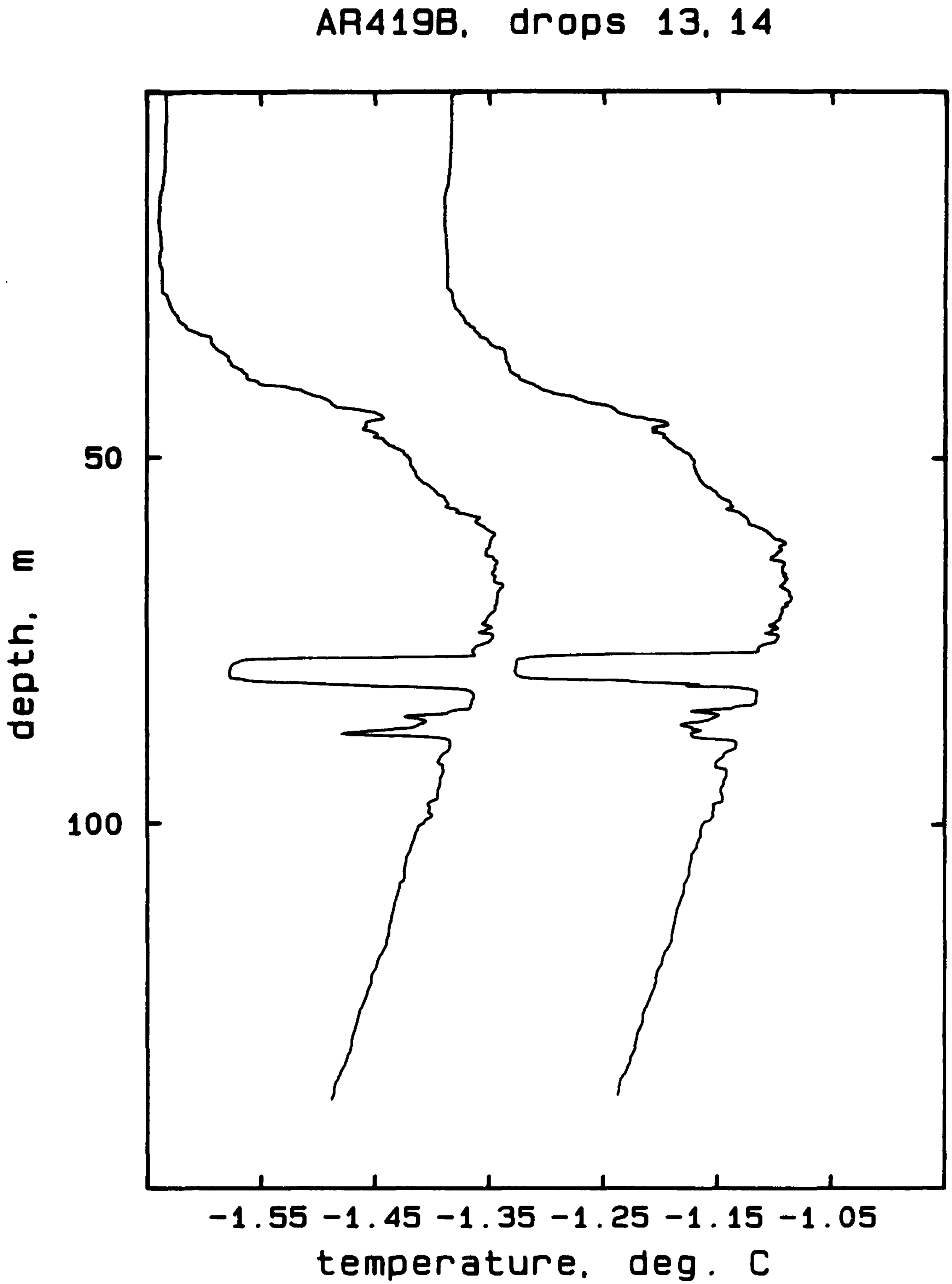
AR419B, drops 4, 5, 7

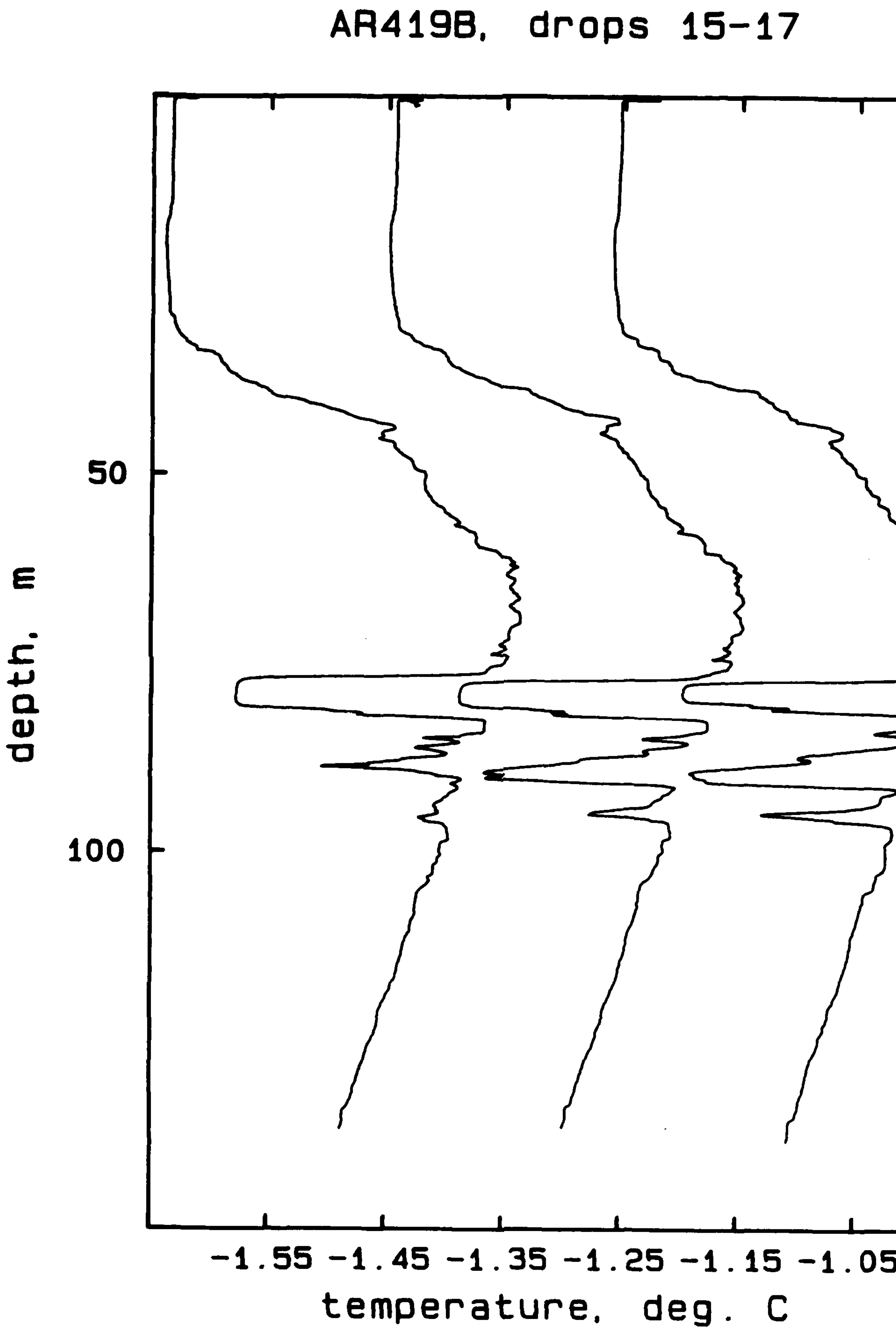


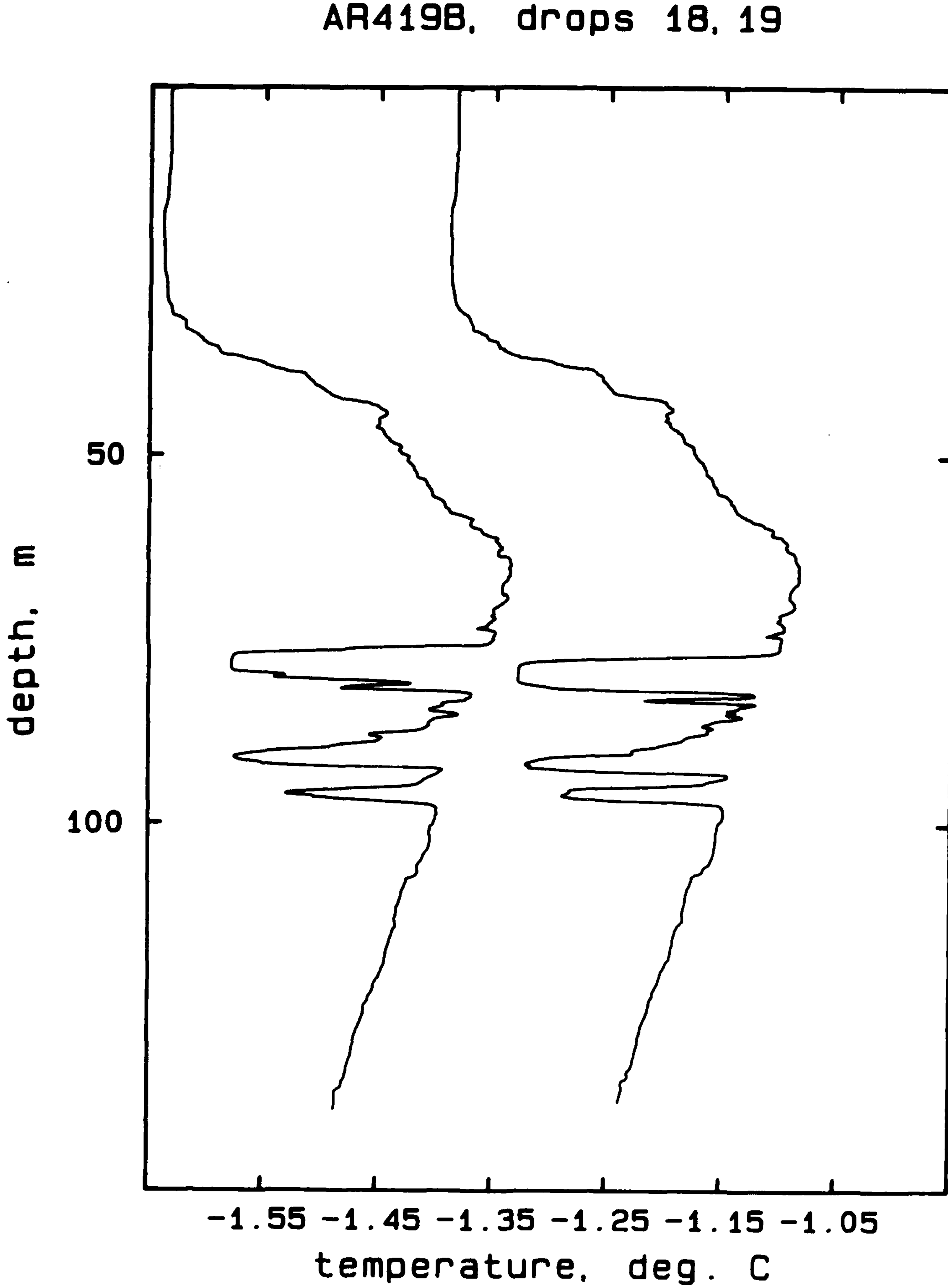

AR419B, drops 4, 5, 7, 8
20
40
60
depth, m
-1.55 -1.45 -1.35 -1.25 -1.15 -1.05
temperature, deg. C


AR419B, drops 8-10
50
100
depth, m
-1.55 -1.45 -1.35 -1.25 -1.15 -1.05
temperature, deg. C

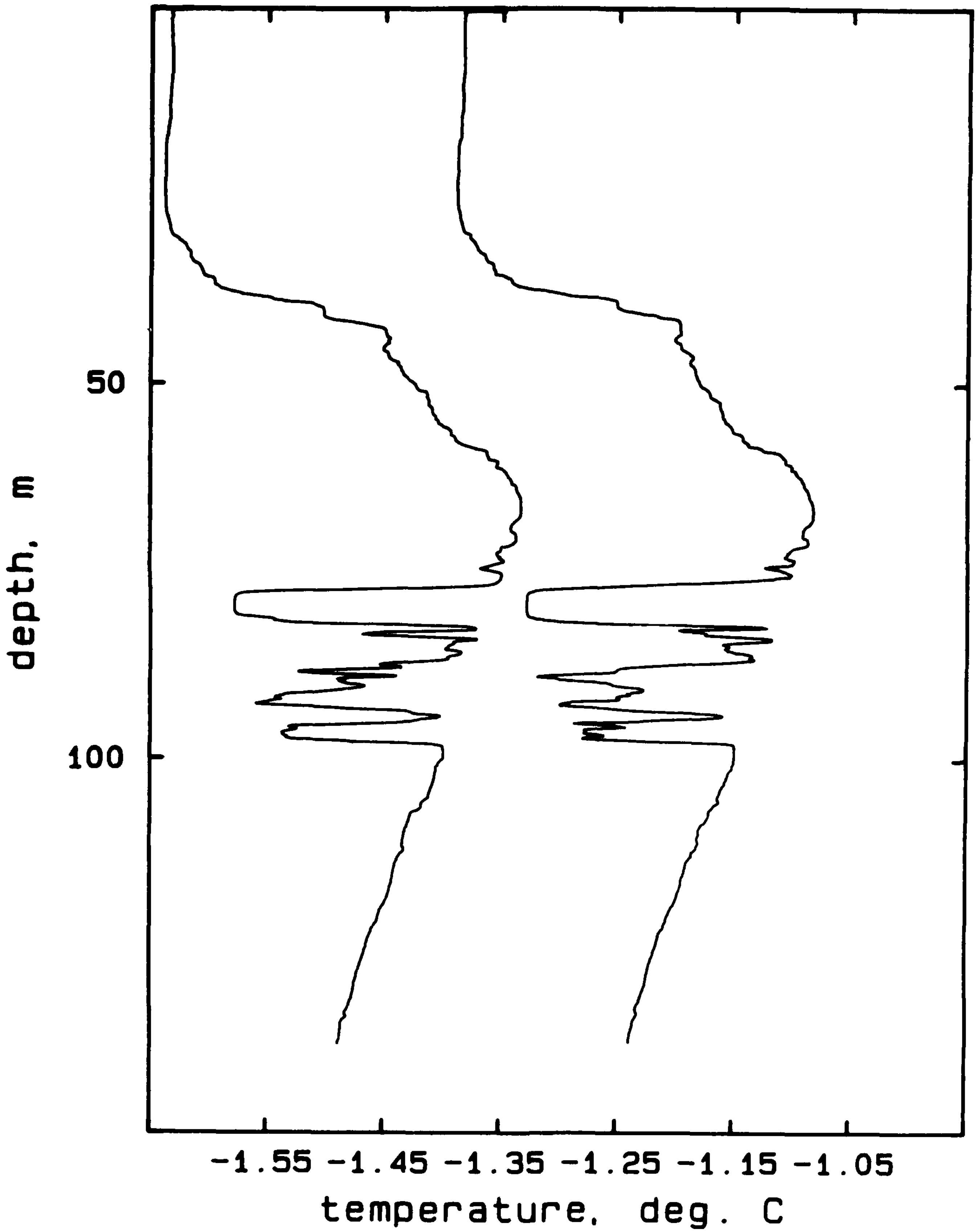

AR419B, drops 11, 12
50
100
depth, m
-1.55 -1.45 -1.35 -1.25 -1.15 -1.05
temperature, deg. C


AR419B, drops 13, 14
50
100
depth, m
-1.55 -1.45 -1.35 -1.25 -1.15 -1.05
temperature, deg. C

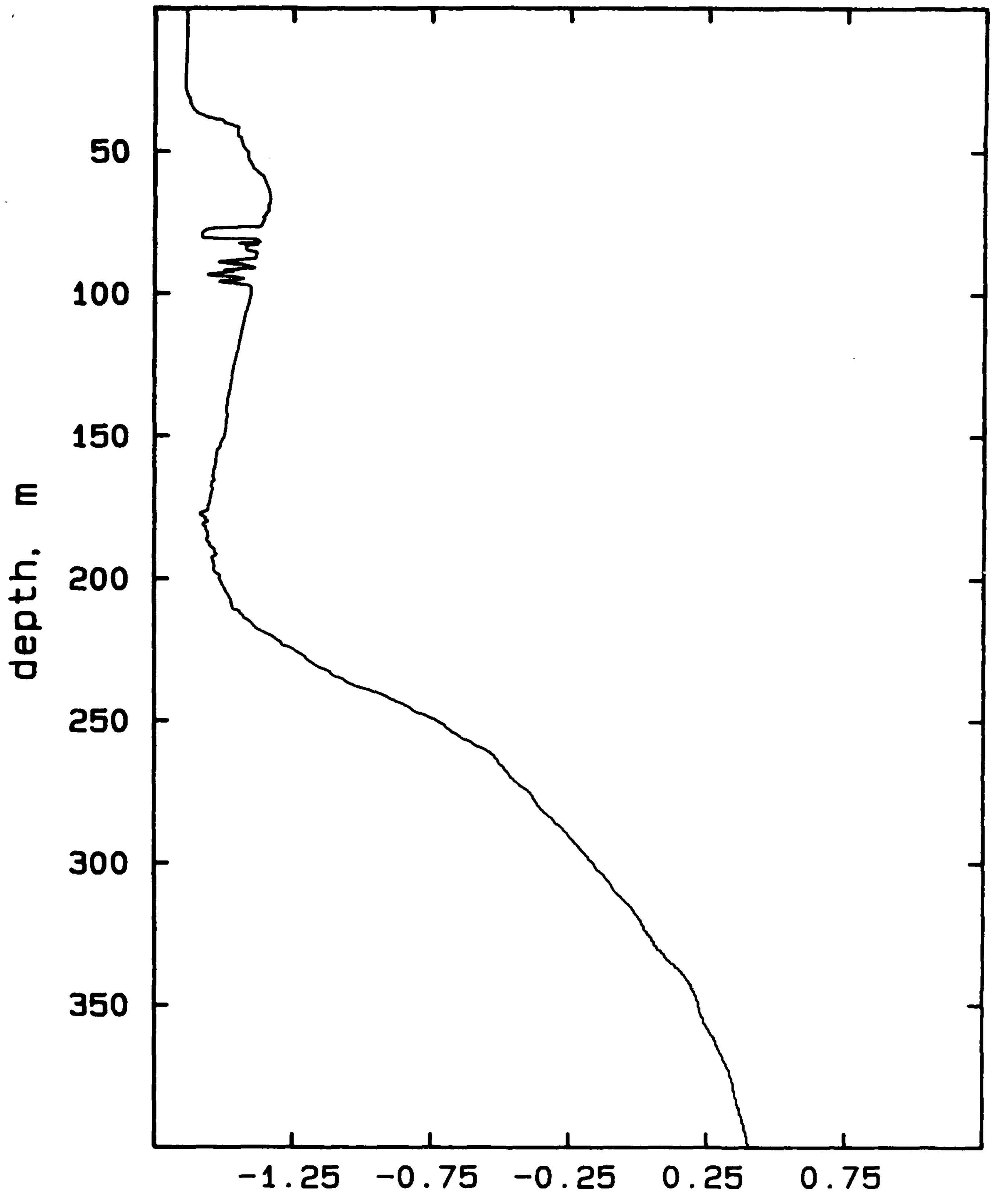

AR419B, drops 15-17
50
100
depth, m
-1.55 -1.45 -1.35 -1.25 -1.15 -1.05
temperature, deg. C

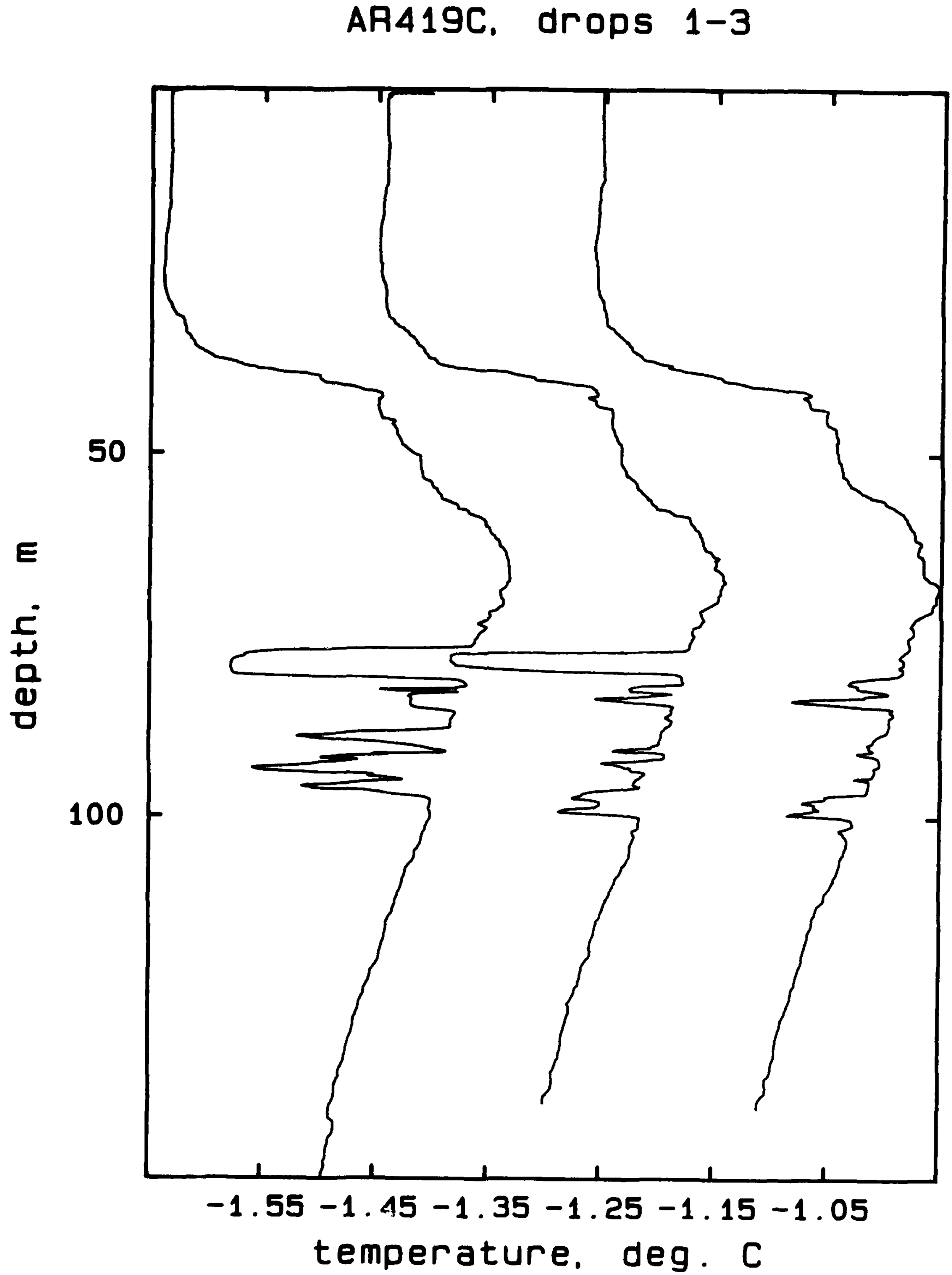

AR419B, drops 18, 19
50
100
depth, m
-1.55 -1.45 -1.35 -1.25 -1.15 -1.05
temperature, deg. C

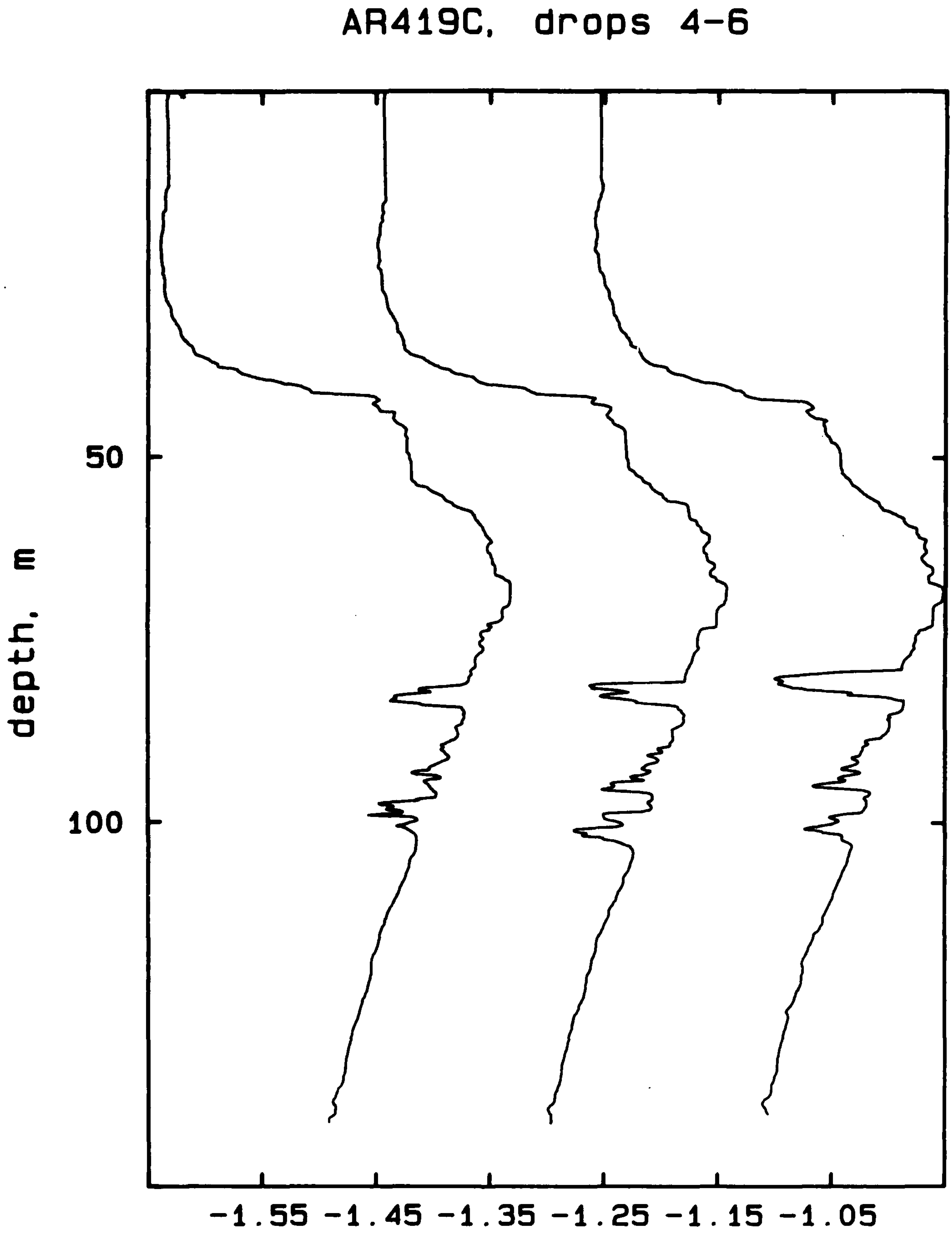
AR419B, drops 20, 21

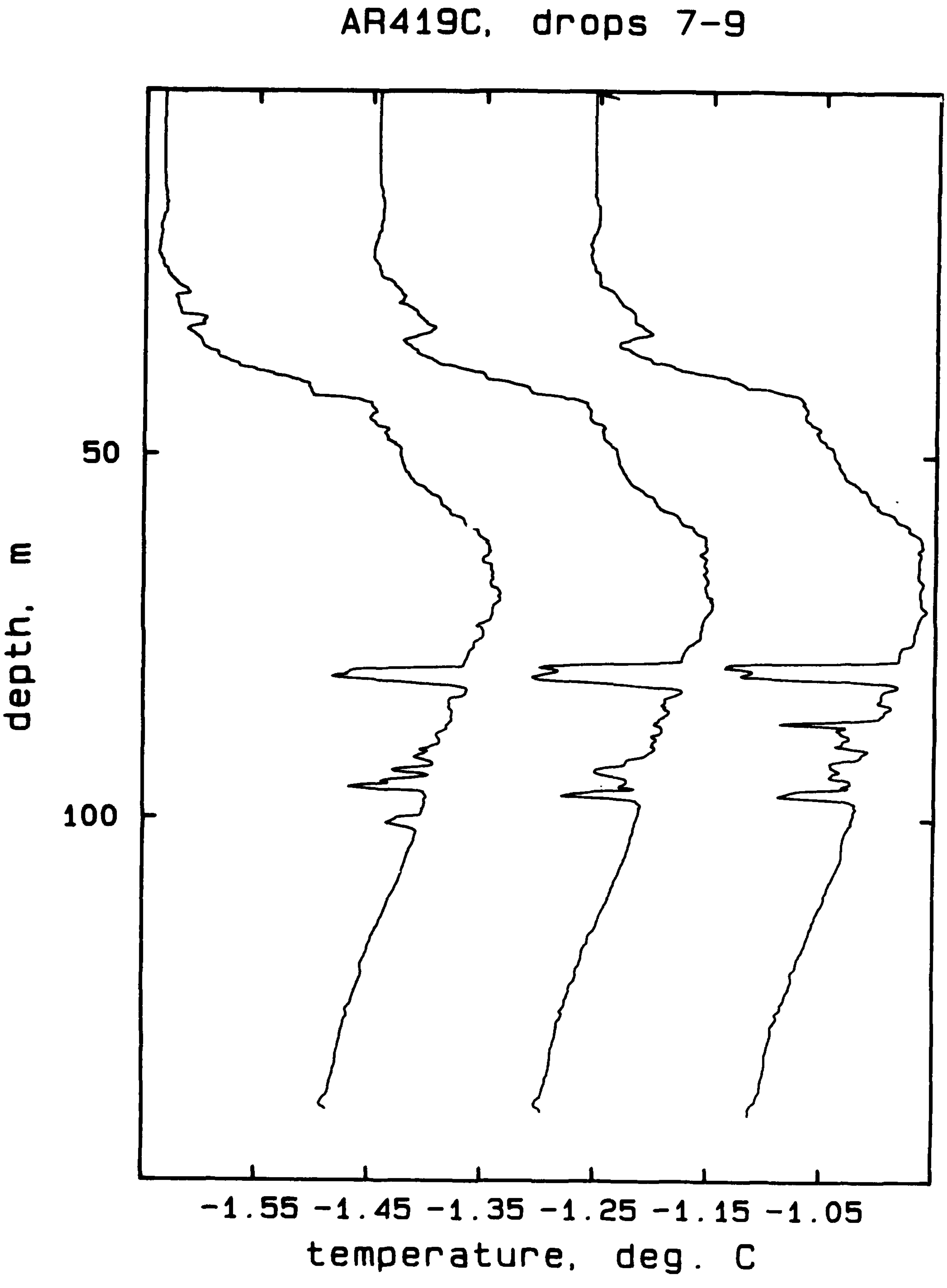


AR419C, drop 1

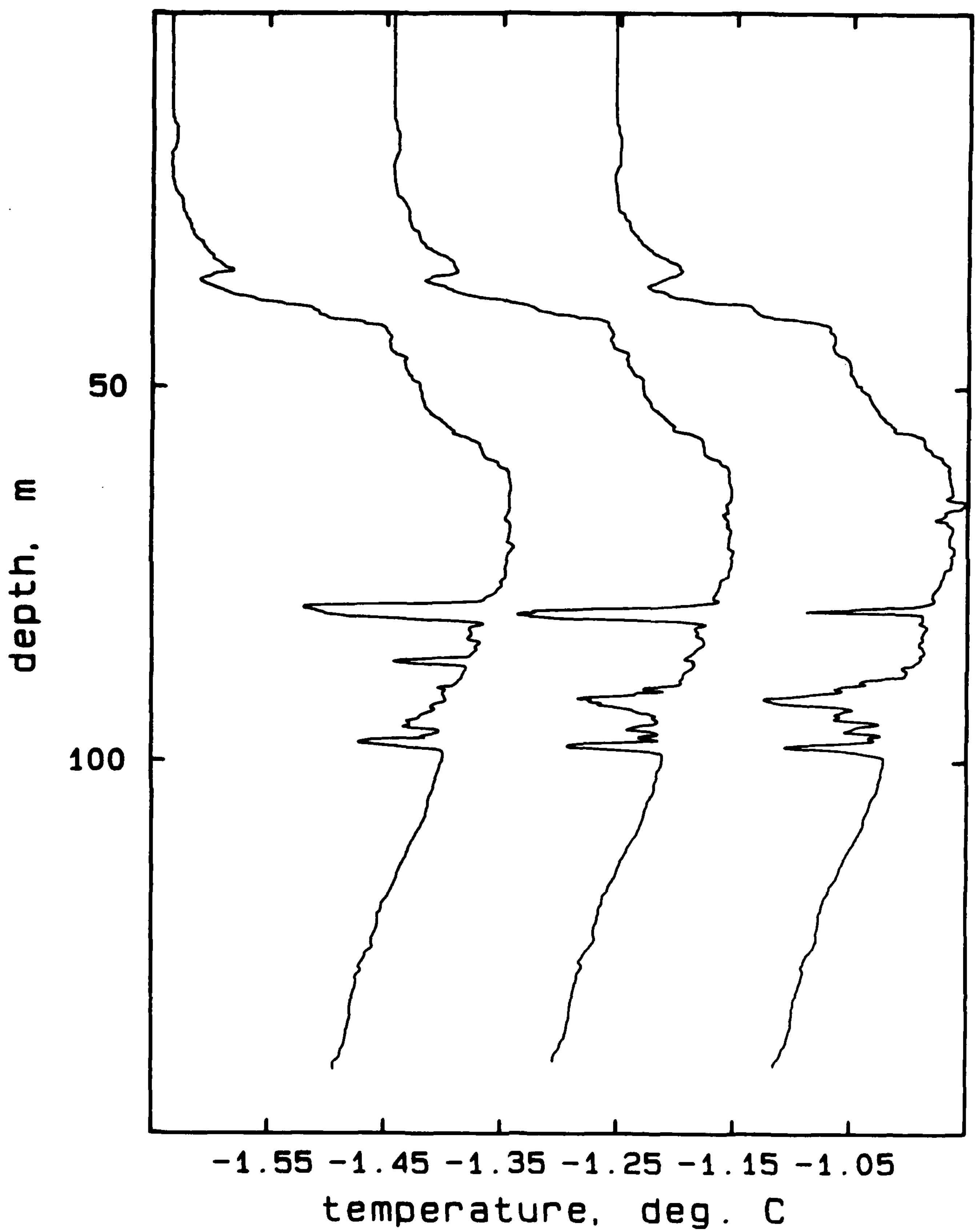


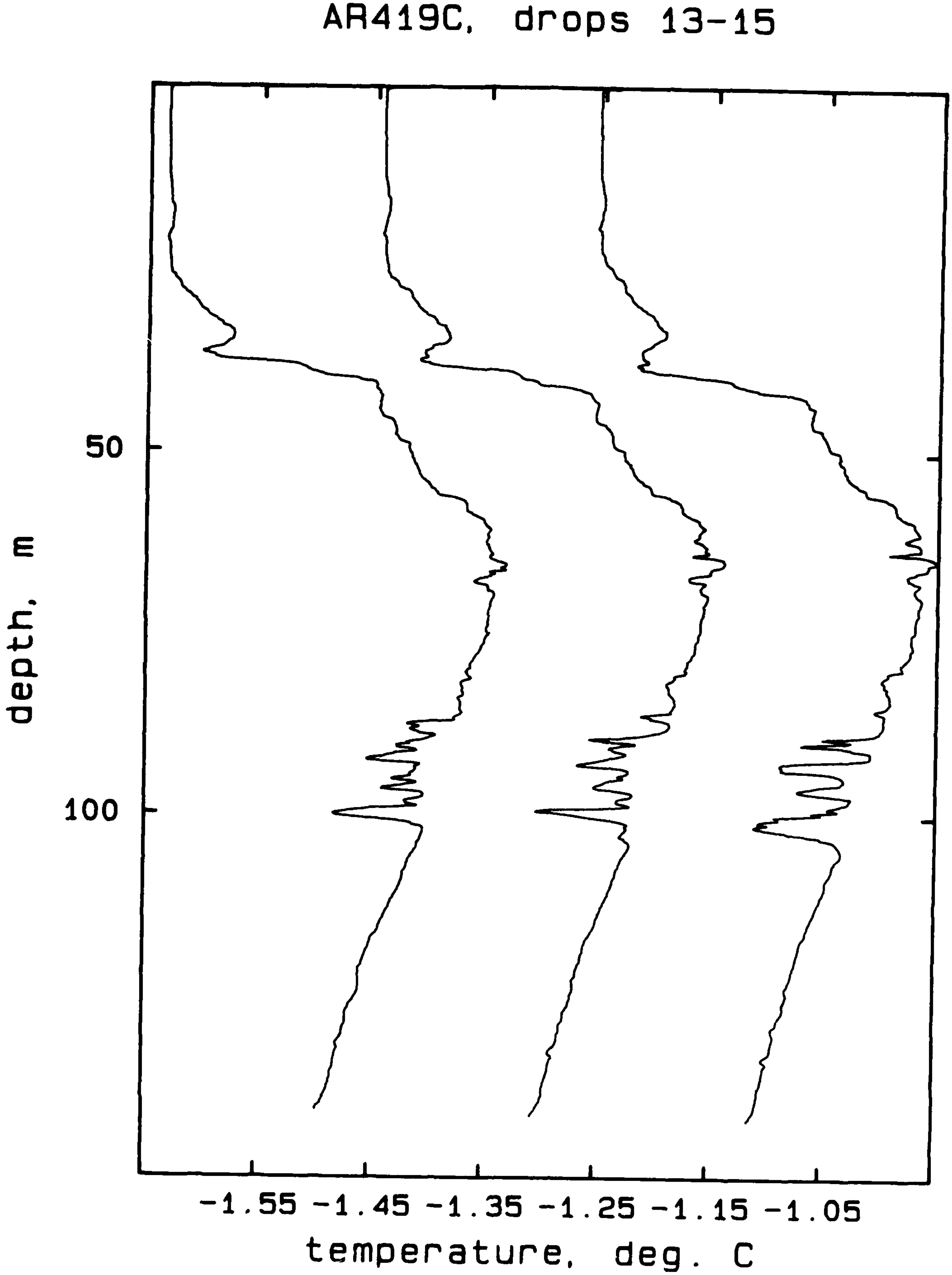

AR419C, drops 1-3
50
100
depth, m
-1.55 -1.45 -1.35 -1.25 -1.15 -1.05
temperature, deg. C

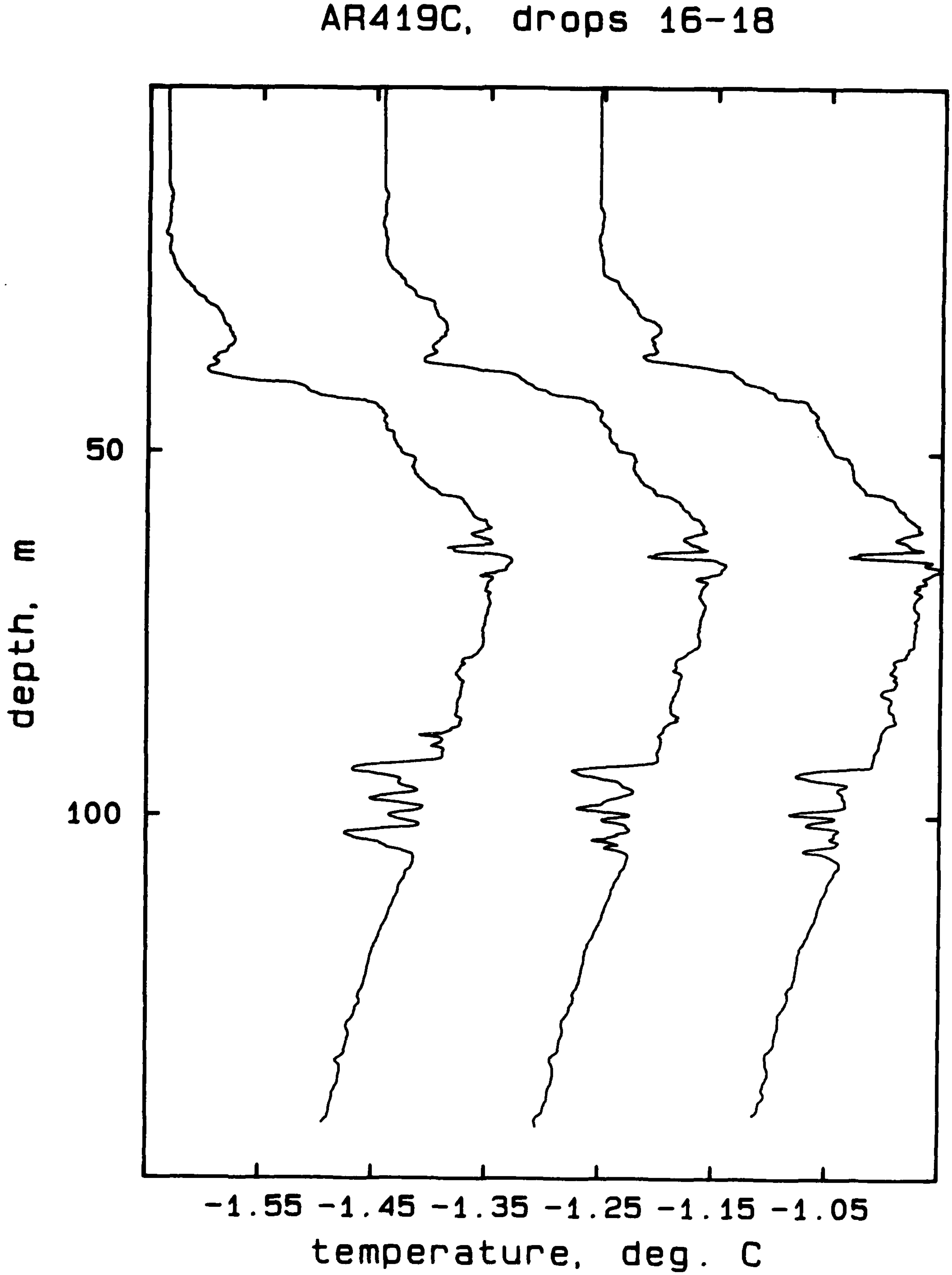

AR419C, drops 4-6
depth, m
50
100
-1.55 -1.45 -1.35 -1.25 -1.15 -1.05
temperature, deg. C


AR419C, drops 7-9
50
100
depth, m
-1.55 -1.45 -1.35 -1.25 -1.15 -1.05
temperature, deg. C

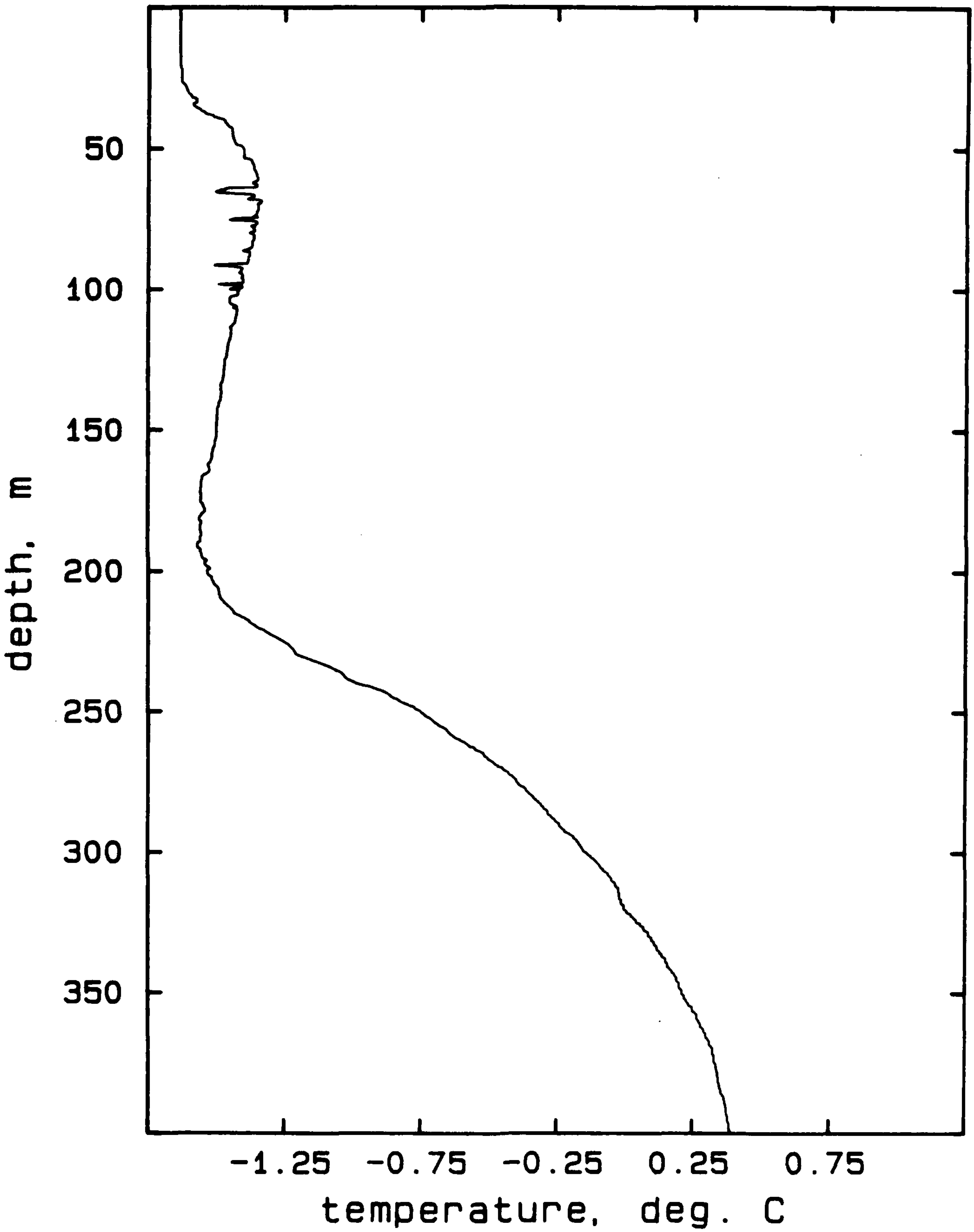
AR419C, drops 10-12

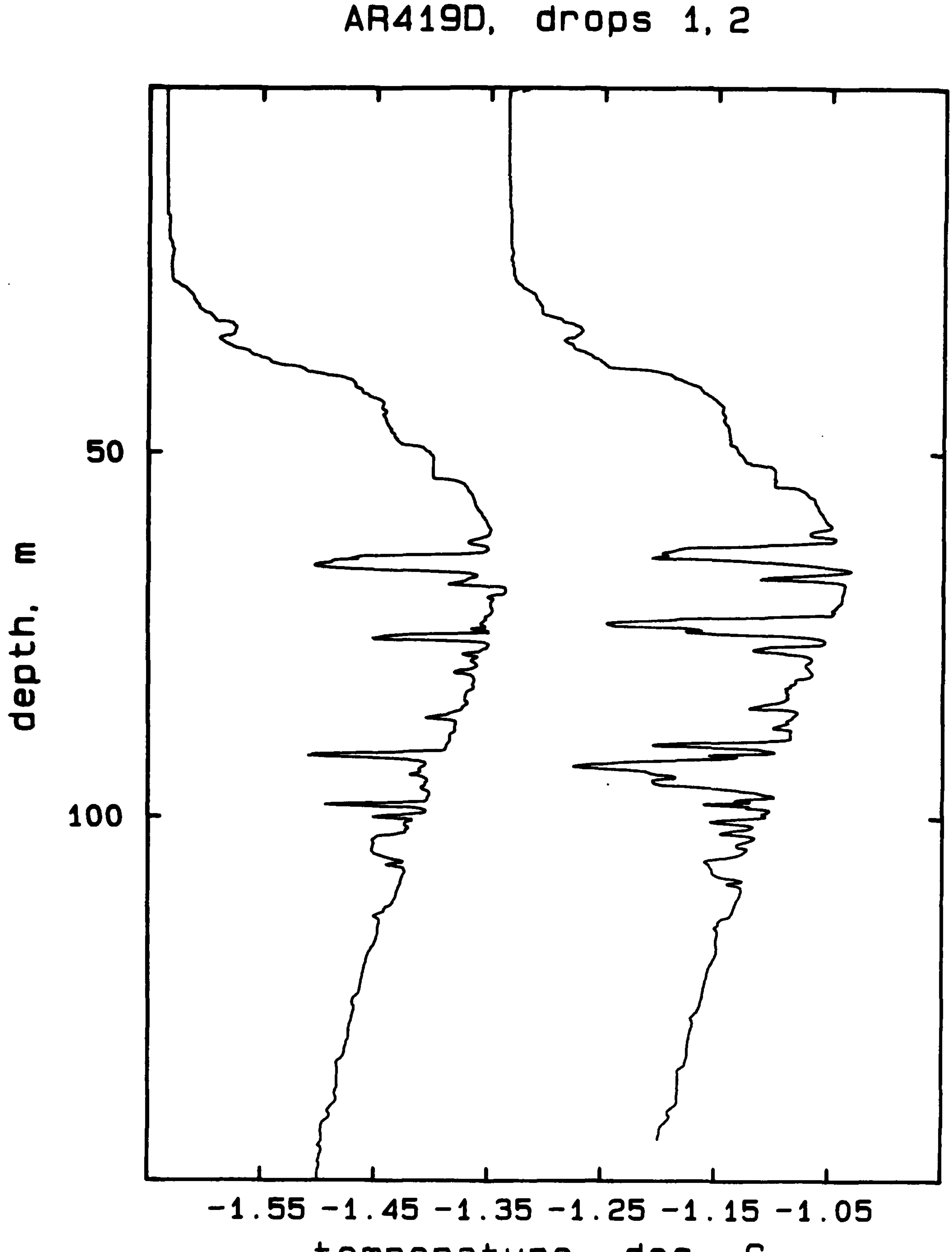


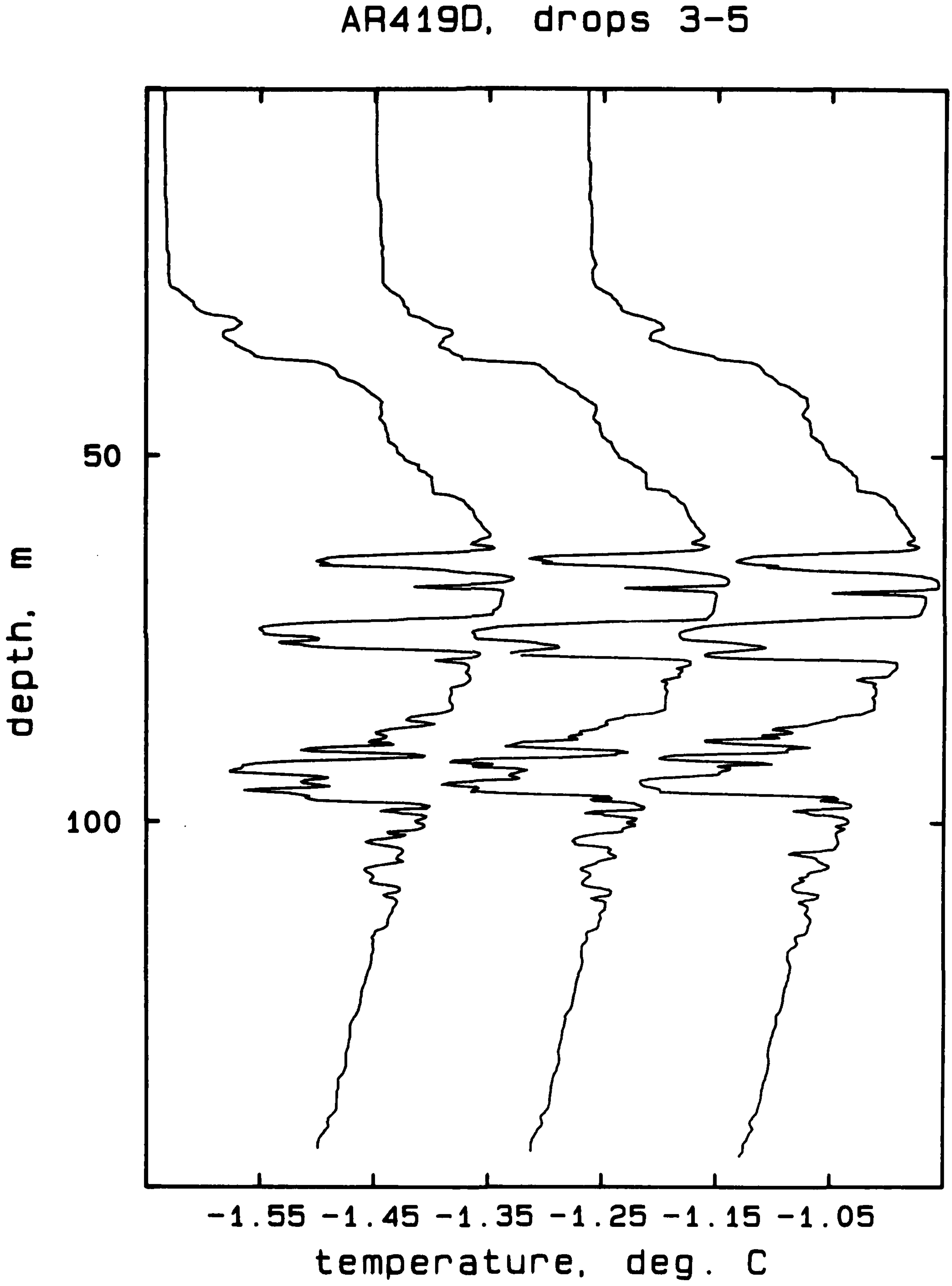

AR419C, drops 13-15
50
100
depth, m
-1.55 -1.45 -1.35 -1.25 -1.15 -1.05
temperature, deg. C

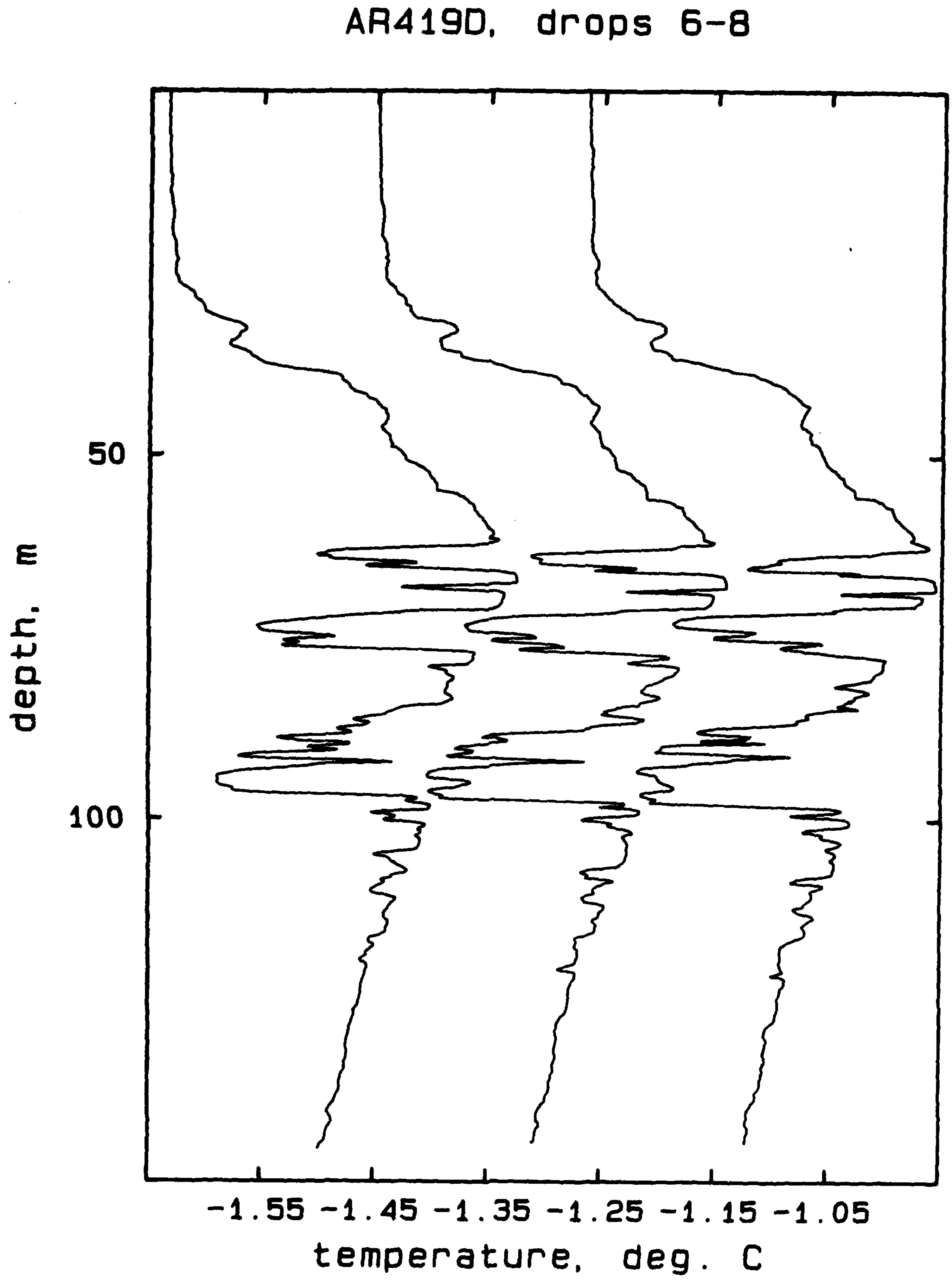

AR419C, drops 16-18
50
100
depth, m
-1.55 -1.45 -1.35 -1.25 -1.15 -1.05
temperature, deg. C

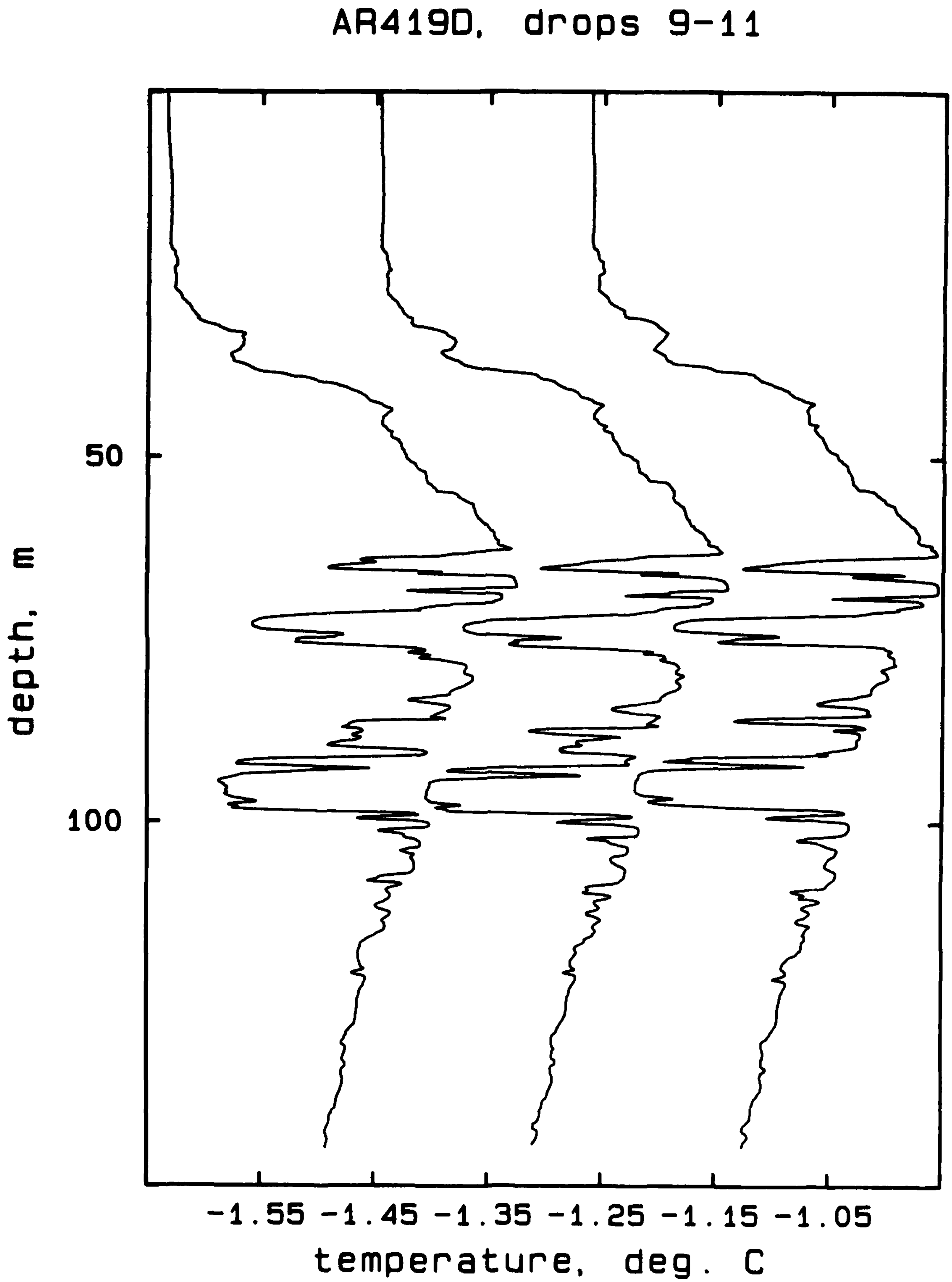
AR419D, drop 1

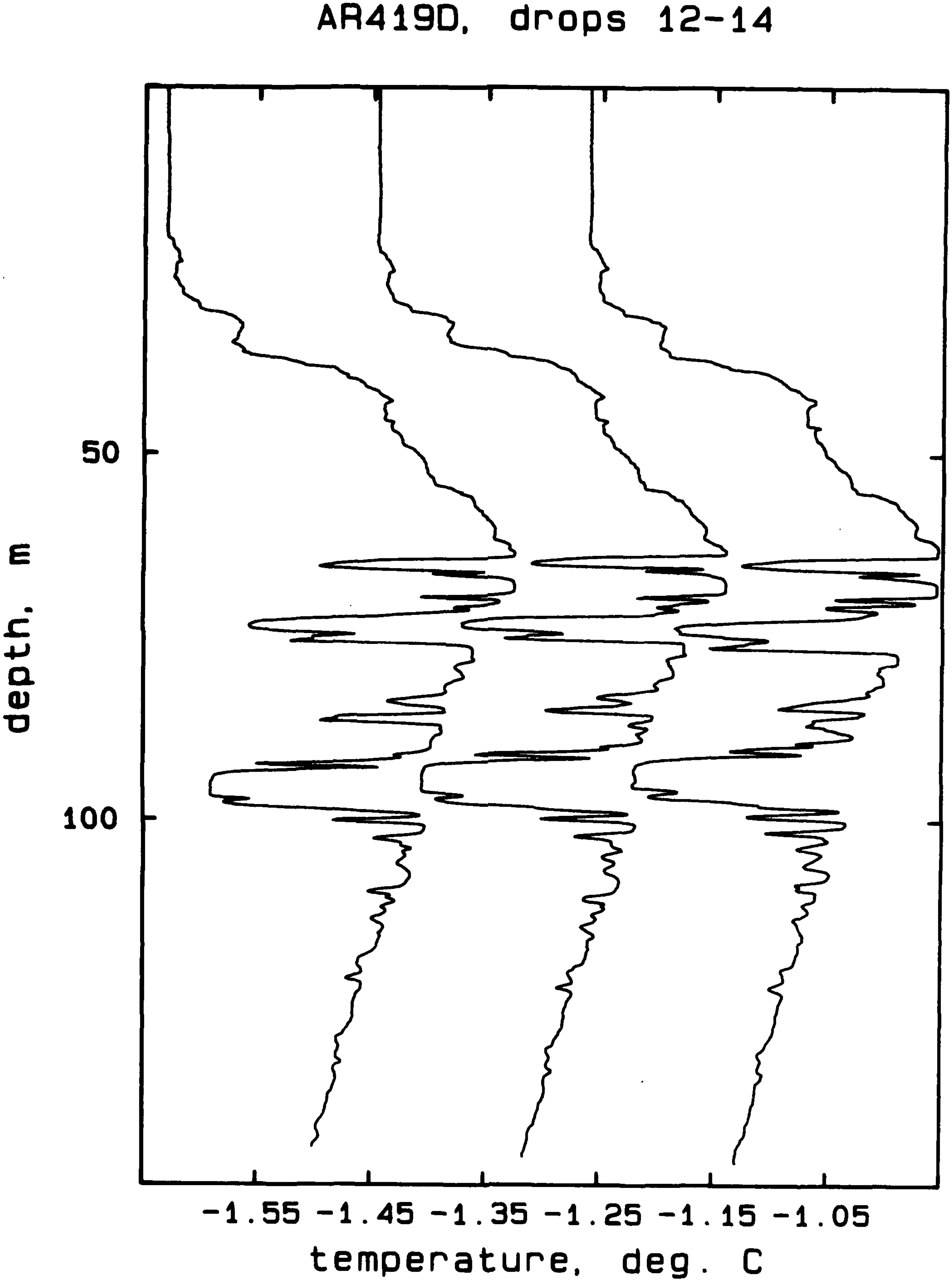


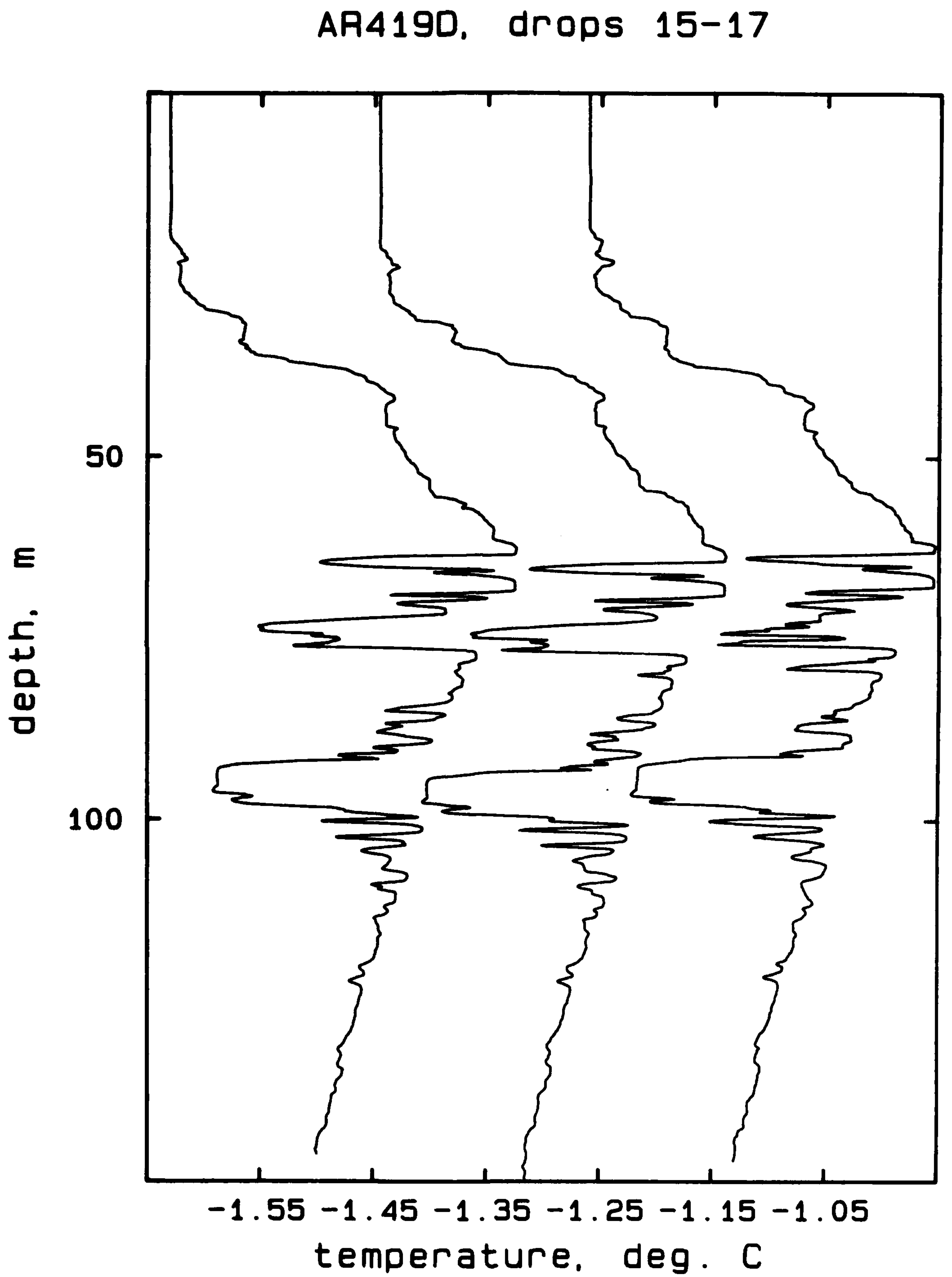

AR419D, drops 1, 2
depth, m
50
100
-1.55 -1.45 -1.35 -1.25 -1.15 -1.05
temperature, deg. C

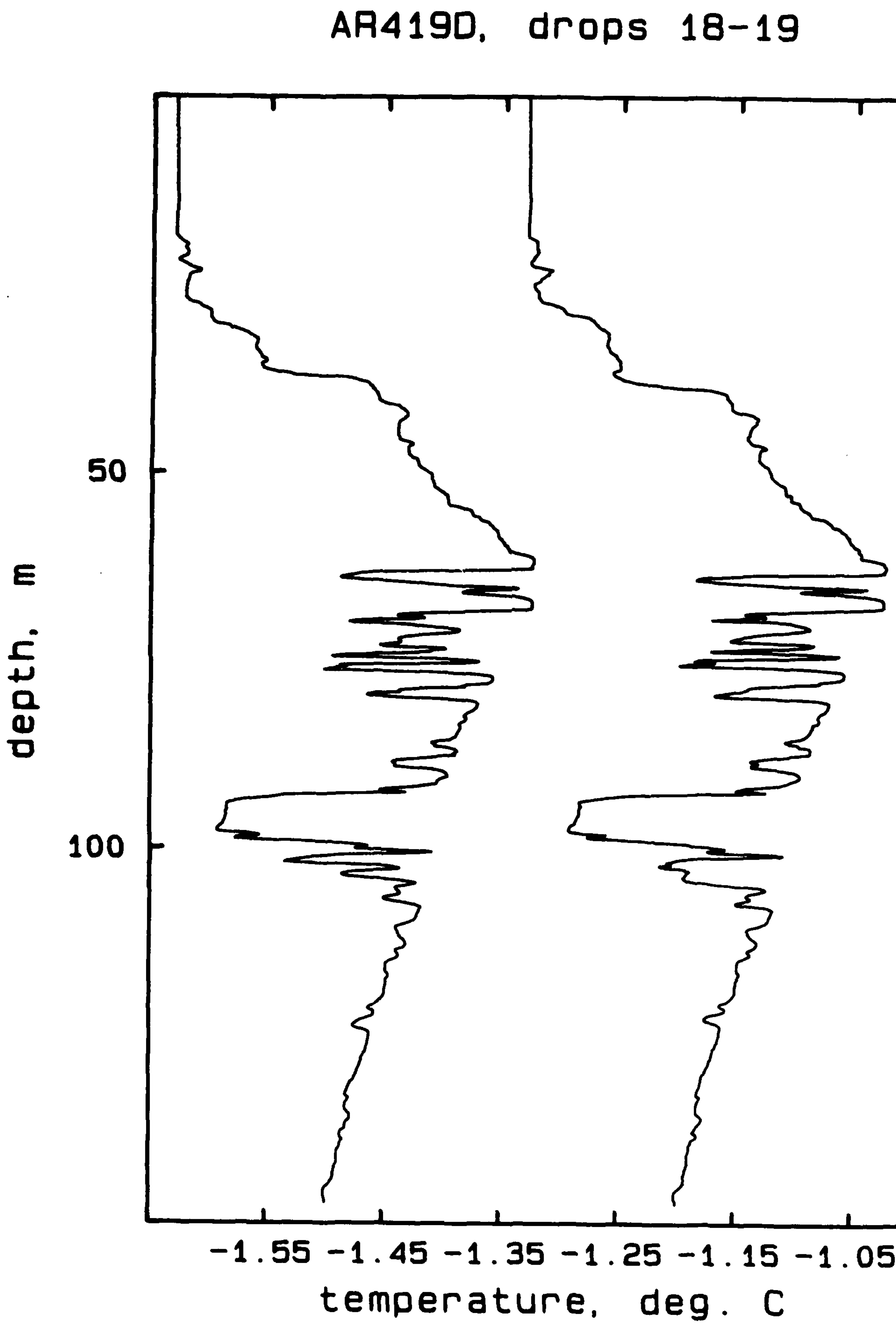

AR419D, drops 3-5
50
100
depth, m
-1.55 -1.45 -1.35 -1.25 -1.15 -1.05
temperature, deg. C

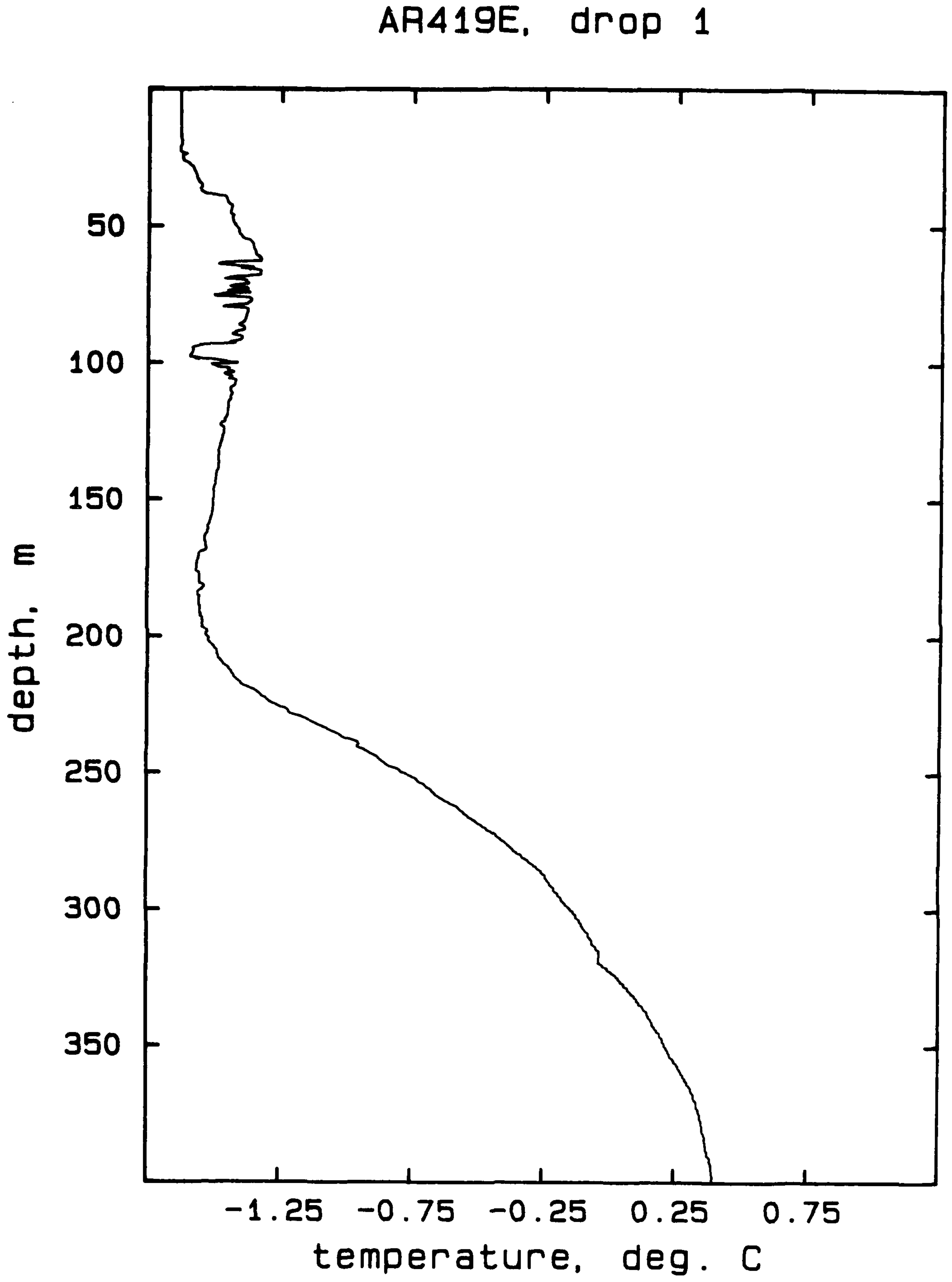

AR419D, drops 6-8
50
100
depth, m
-1.55 -1.45 -1.35 -1.25 -1.15 -1.05
temperature, deg. C

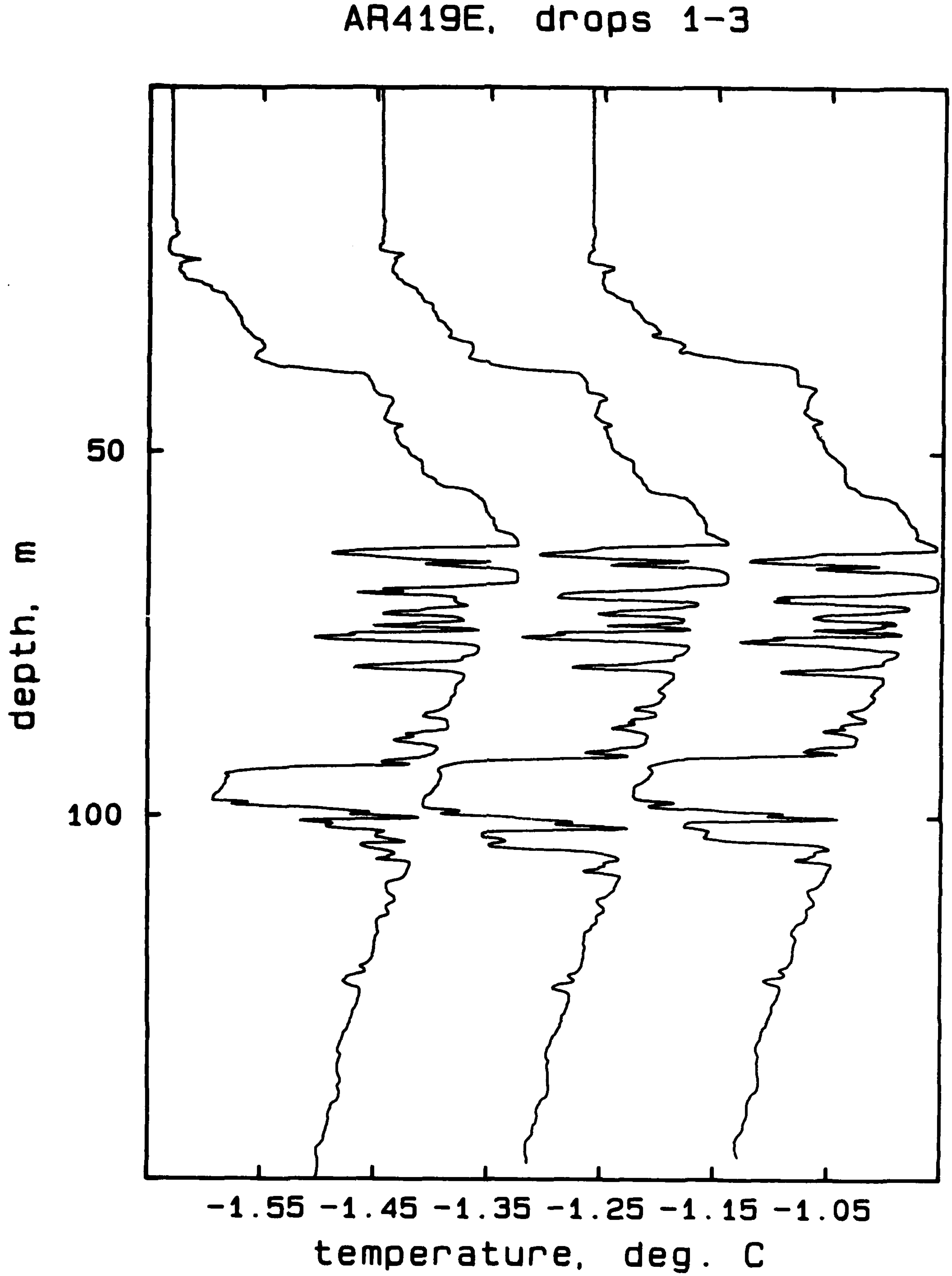

AR419D, drops 9-11
50
100
depth, m
-1.55 -1.45 -1.35 -1.25 -1.15 -1.05
temperature, deg. C

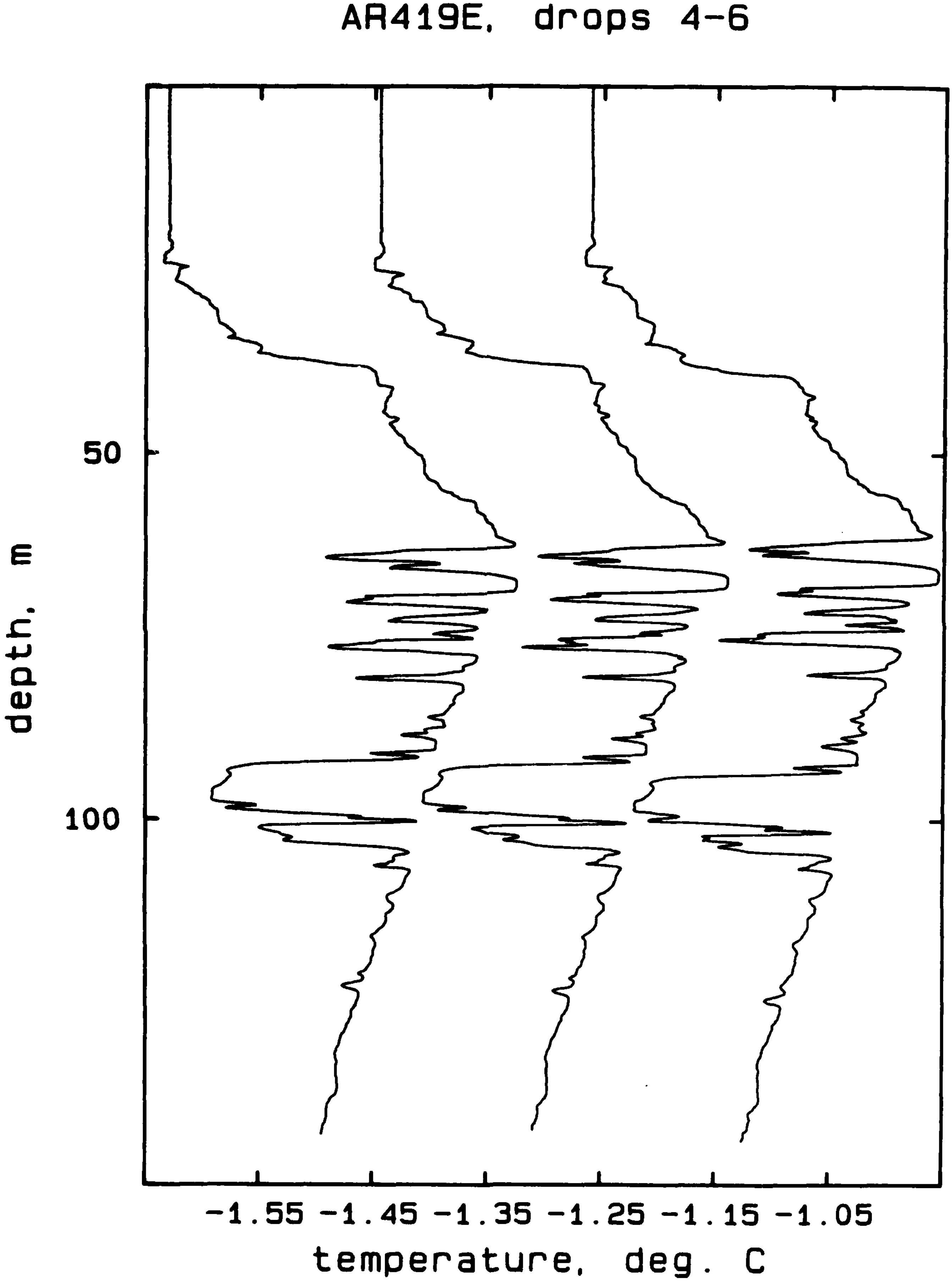

AR419D, drops 12-14
depth, m
50
100
-1.55 -1.45 -1.35 -1.25 -1.15 -1.05
temperature, deg. C


AR419D, drops 15-17
50
100
depth, m
-1.55 -1.45 -1.35 -1.25 -1.15 -1.05
temperature, deg. C

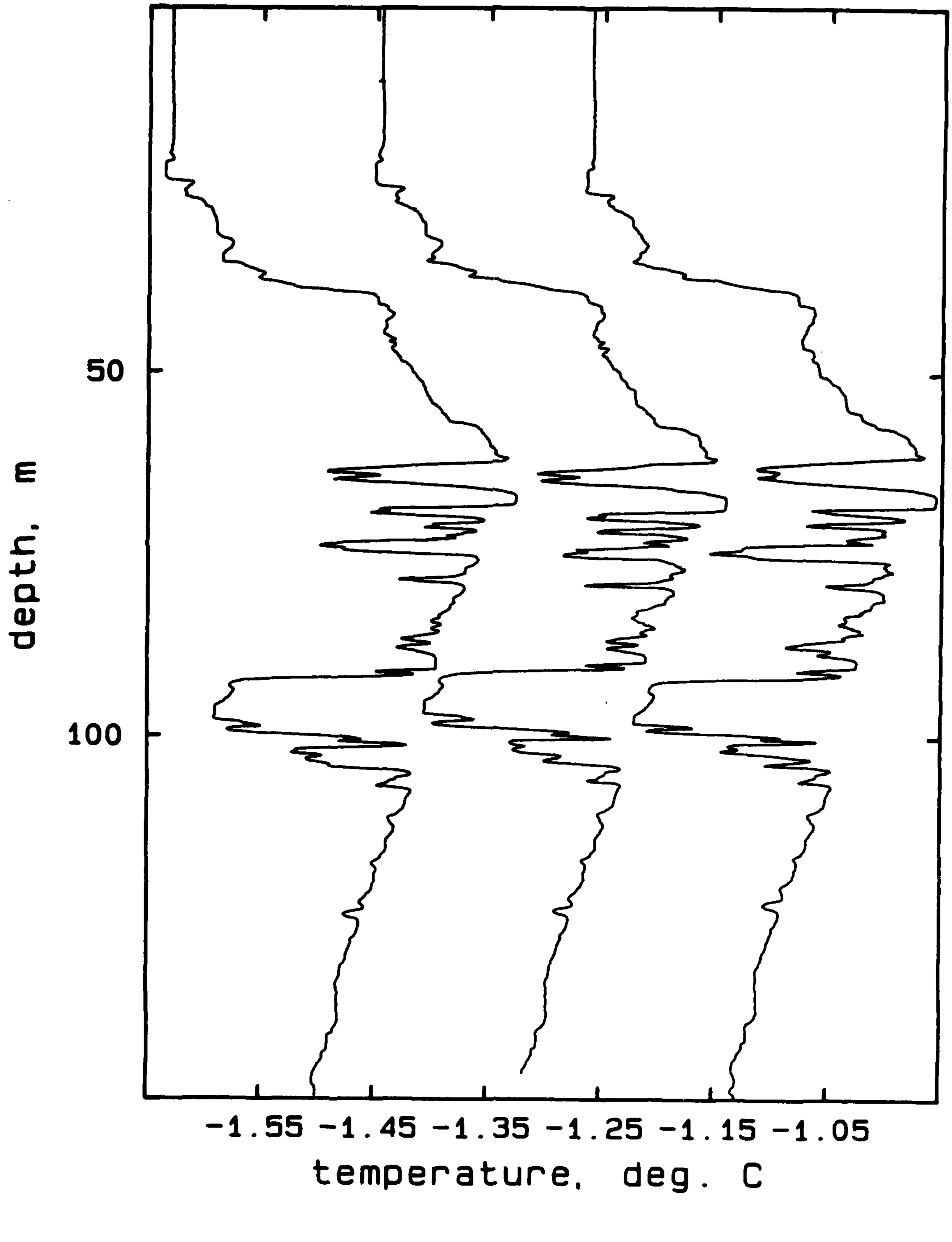

AR419D, drops 18-19
50
100
depth, m
-1.55 -1.45 -1.35 -1.25 -1.15 -1.05
temperature, deg. C

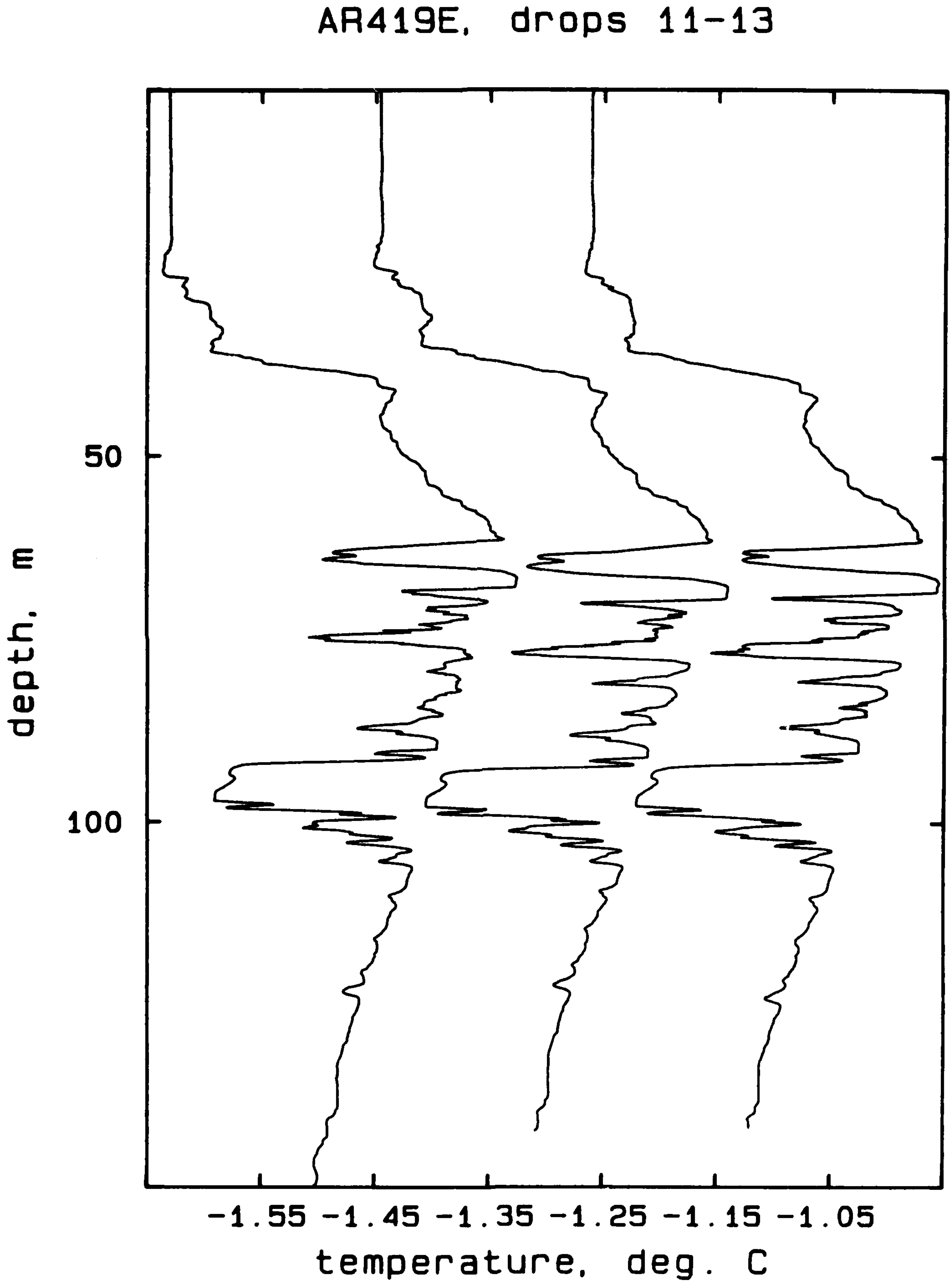

AR419E, drop 1
depth, m
50
100
150
200
250
300
350
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C

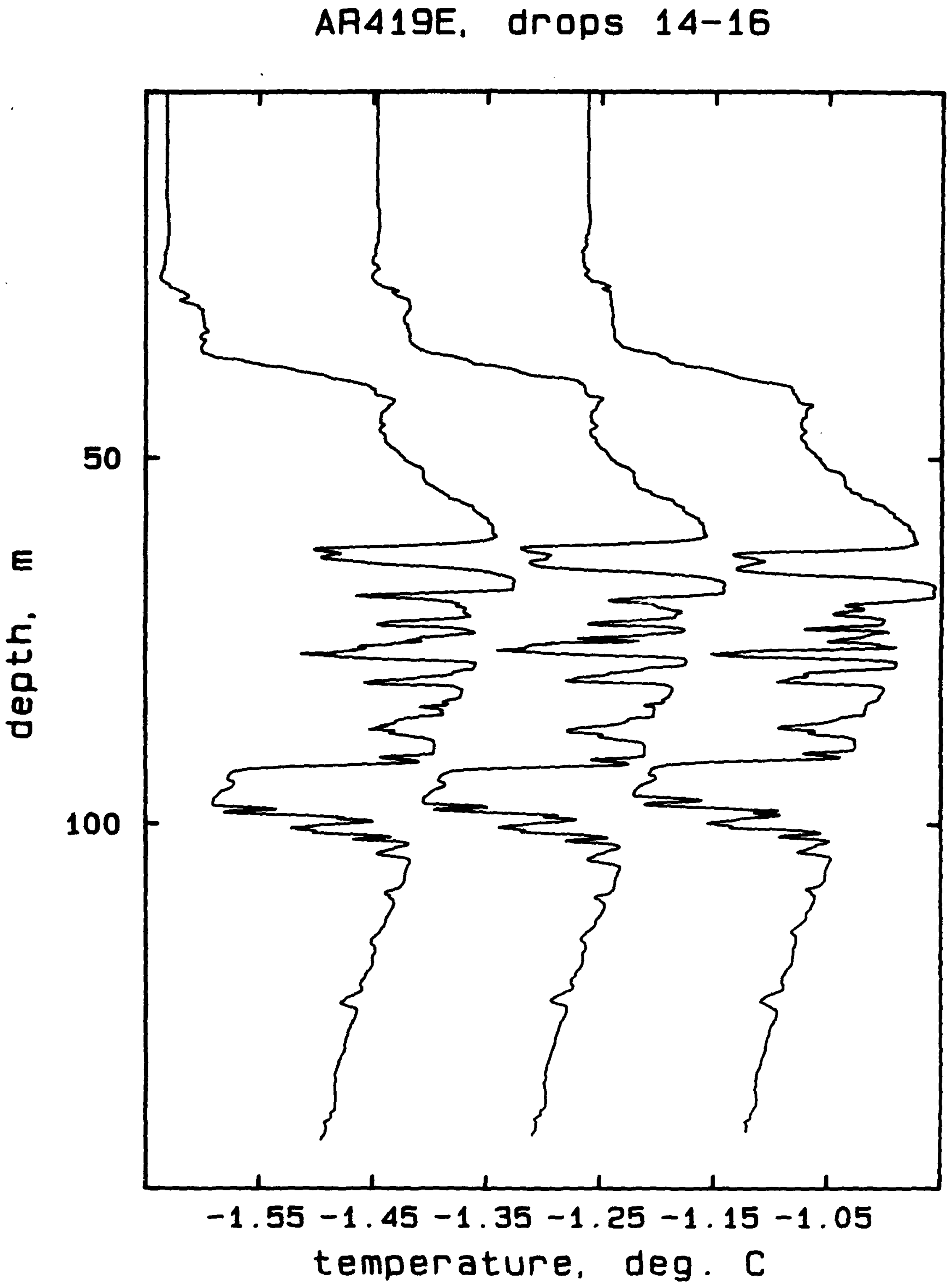

AR419E, drops 1-3
50
100
depth, m
-1.55 -1.45 -1.35 -1.25 -1.15 -1.05
temperature, deg. C

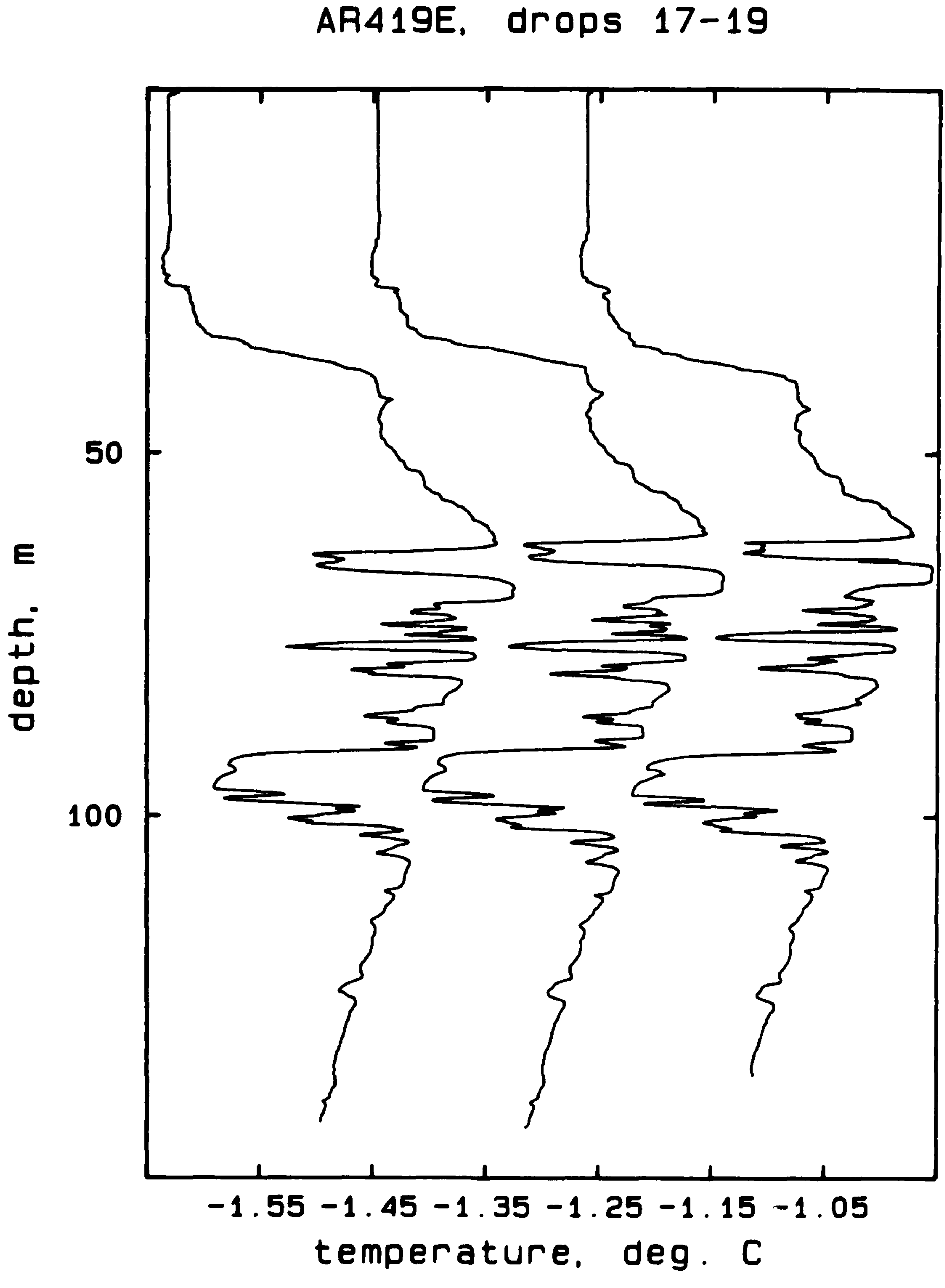

AR419E, drops 4-6
50
100
depth, m
-1.55 -1.45 -1.35 -1.25 -1.15 -1.05
temperature, deg. C

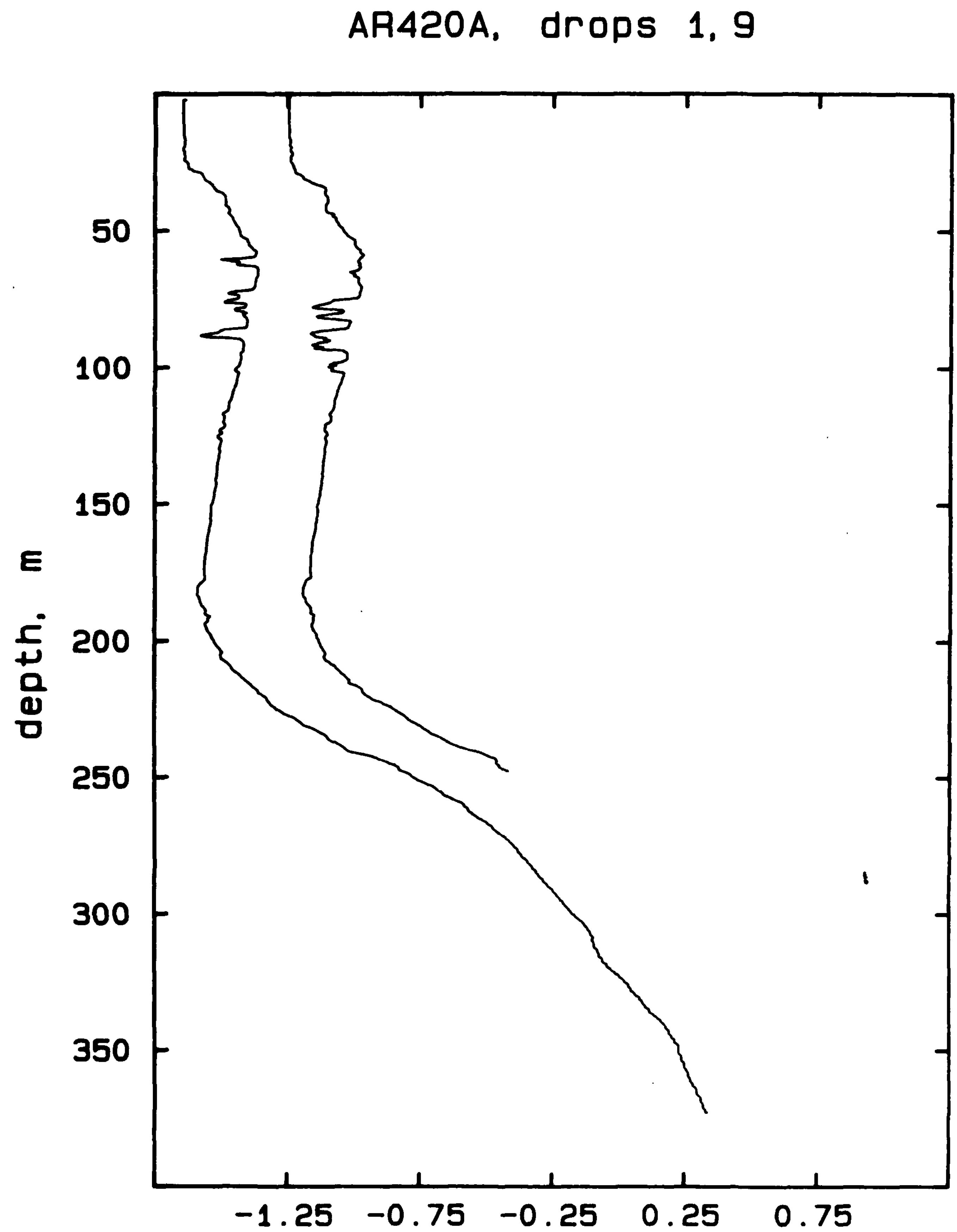
AR419E, drops 7, 8, 10

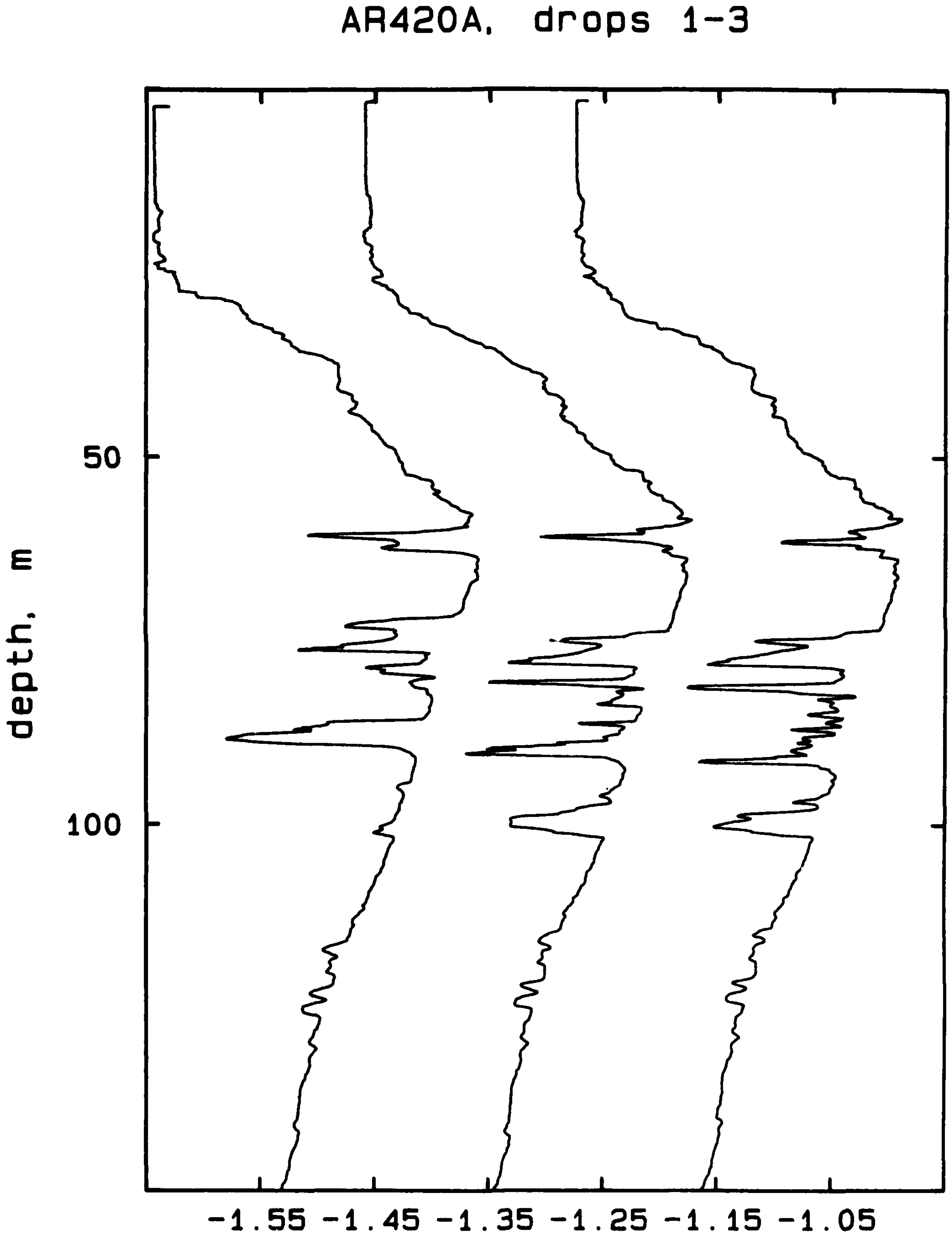


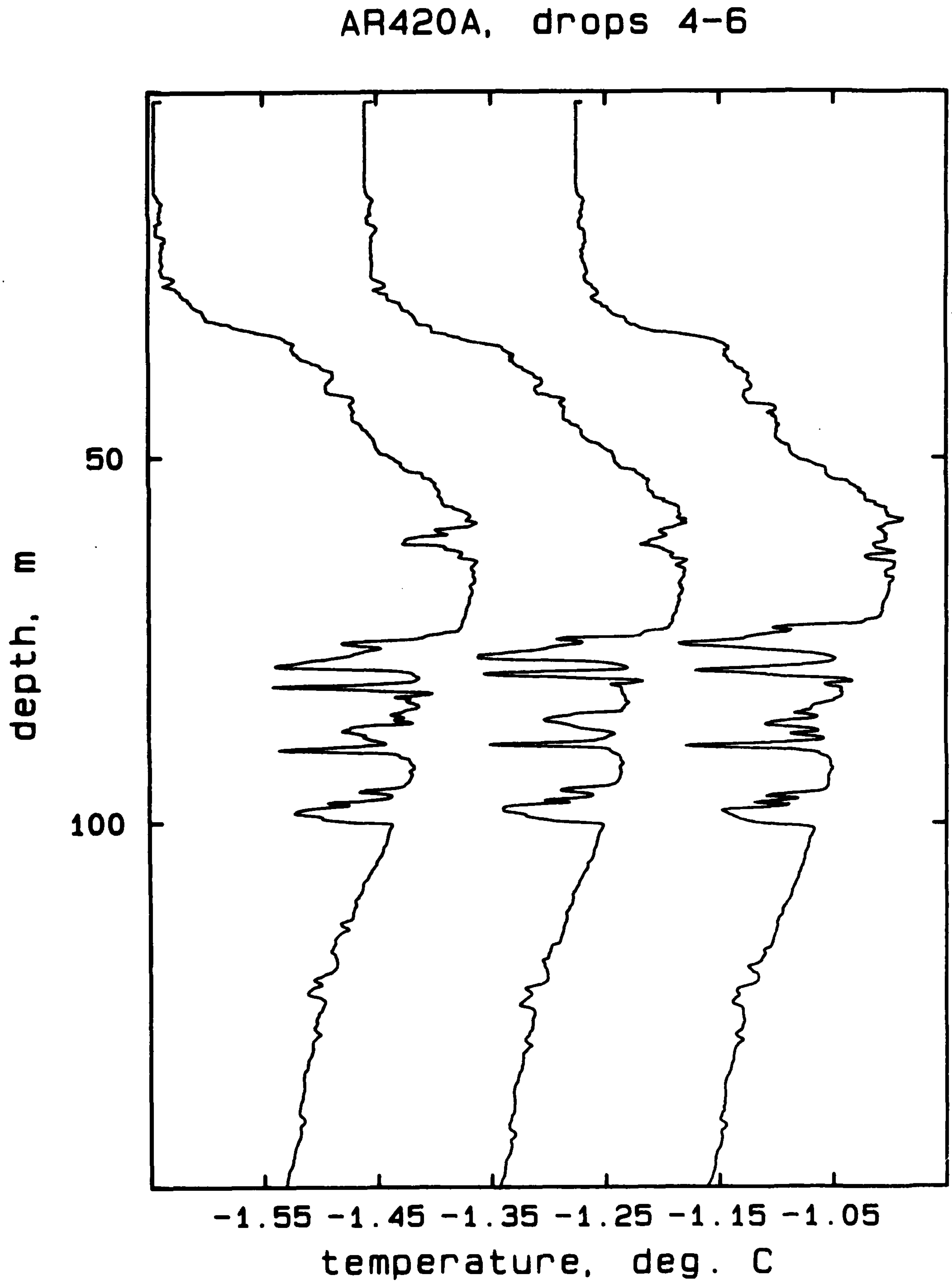

AR419E, drops 11-13
50
100
depth, m
-1.55 -1.45 -1.35 -1.25 -1.15 -1.05
temperature, deg. C

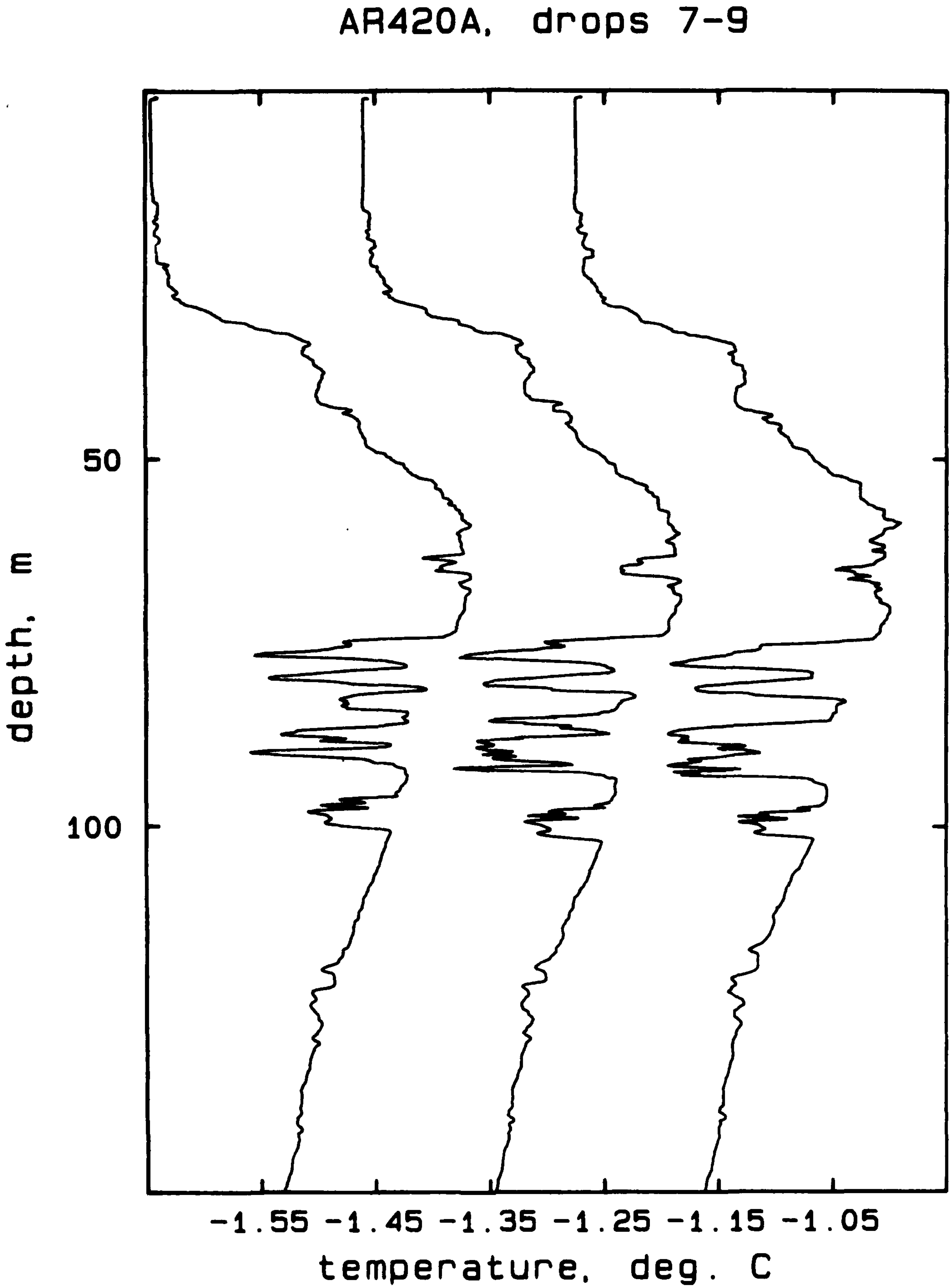

AR419E, drops 14-16
depth, m
50
100
-1.55 -1.45 -1.35 -1.25 -1.15 -1.05
temperature, deg. C

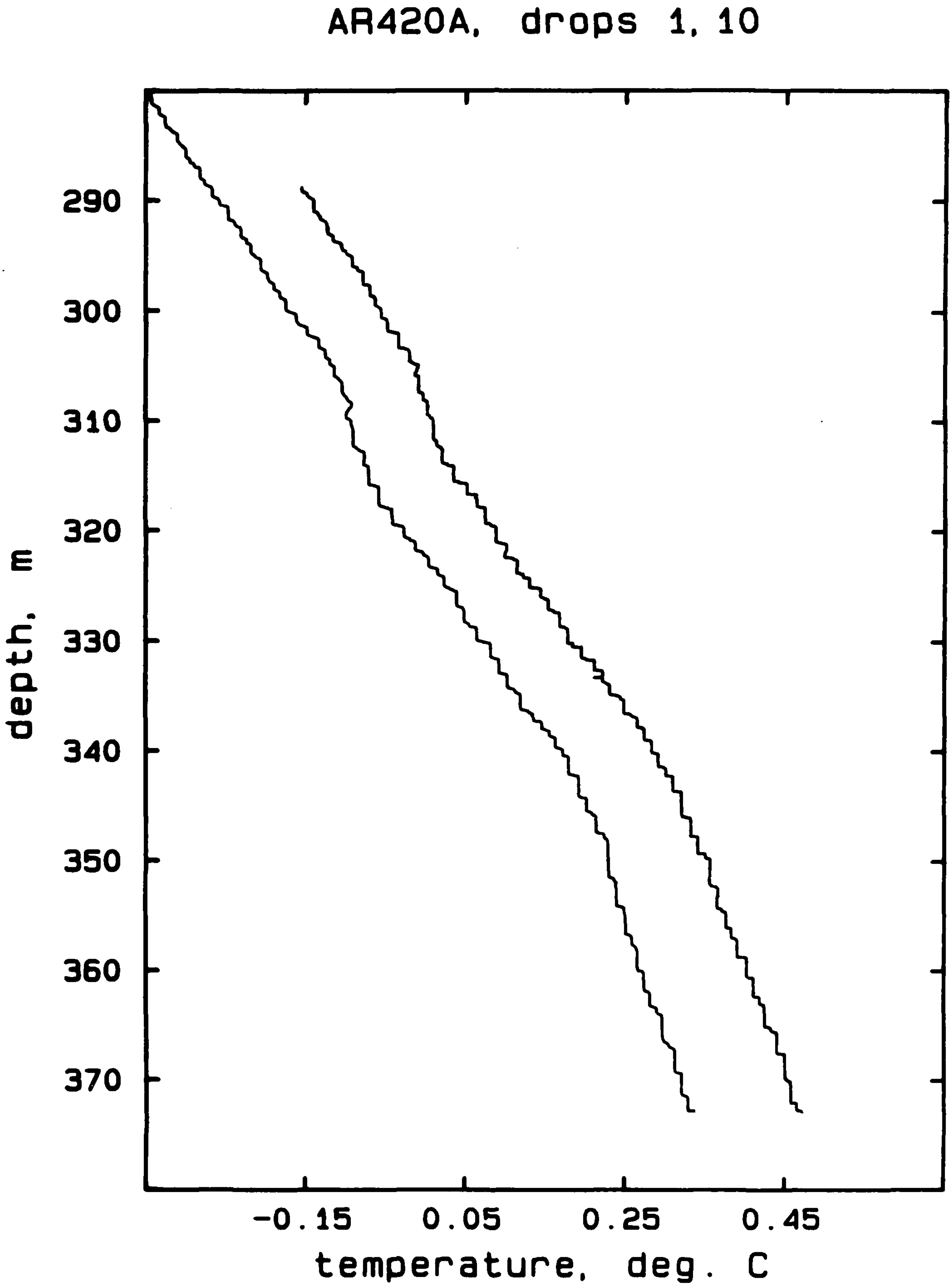

AR419E, drops 17-19
50
100
depth, m
-1.55 -1.45 -1.35 -1.25 -1.15 -1.05
temperature, deg. C

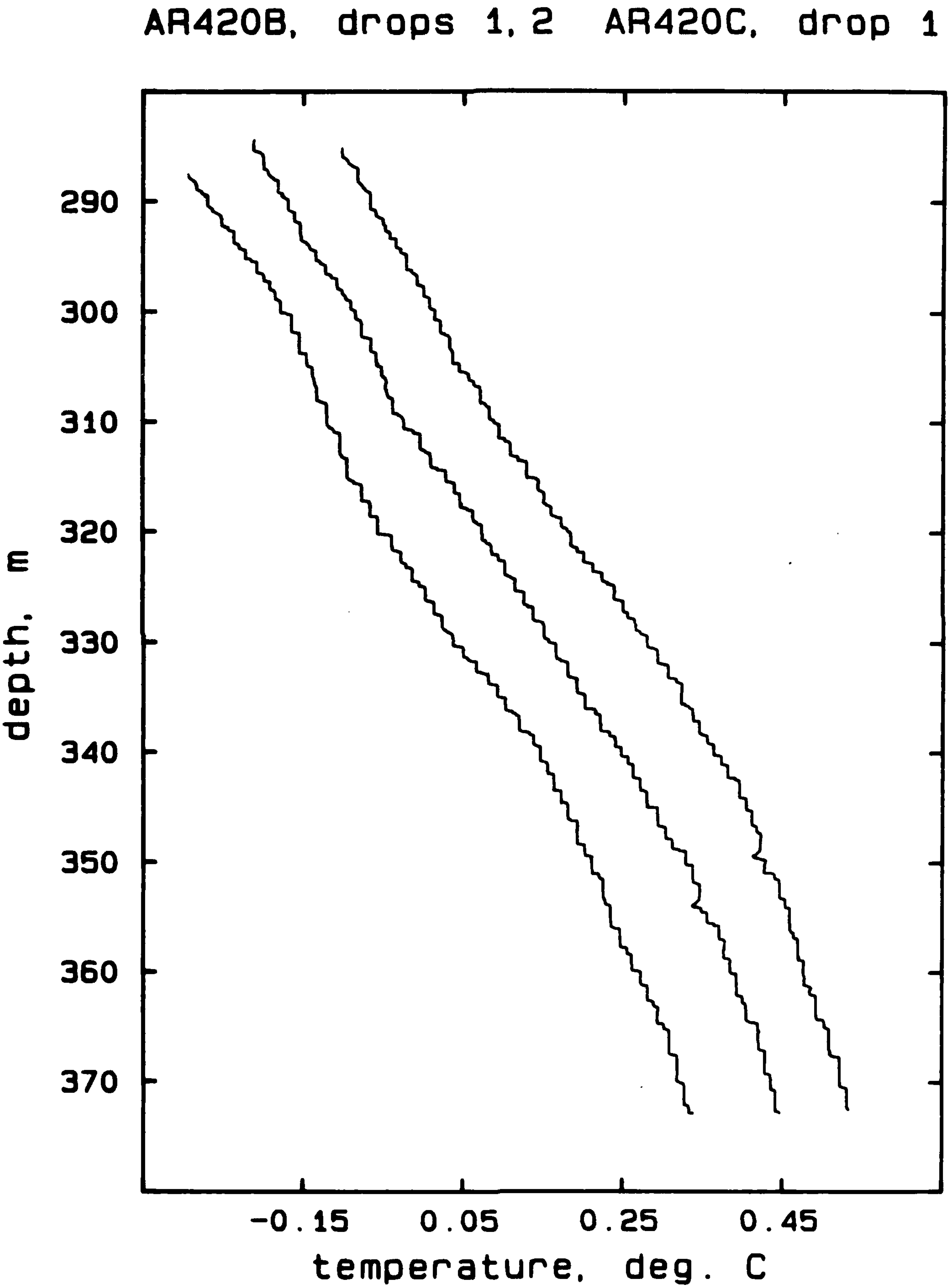

AR420A, drops 1, 9
50
100
150
200
250
300
350
depth, m
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C

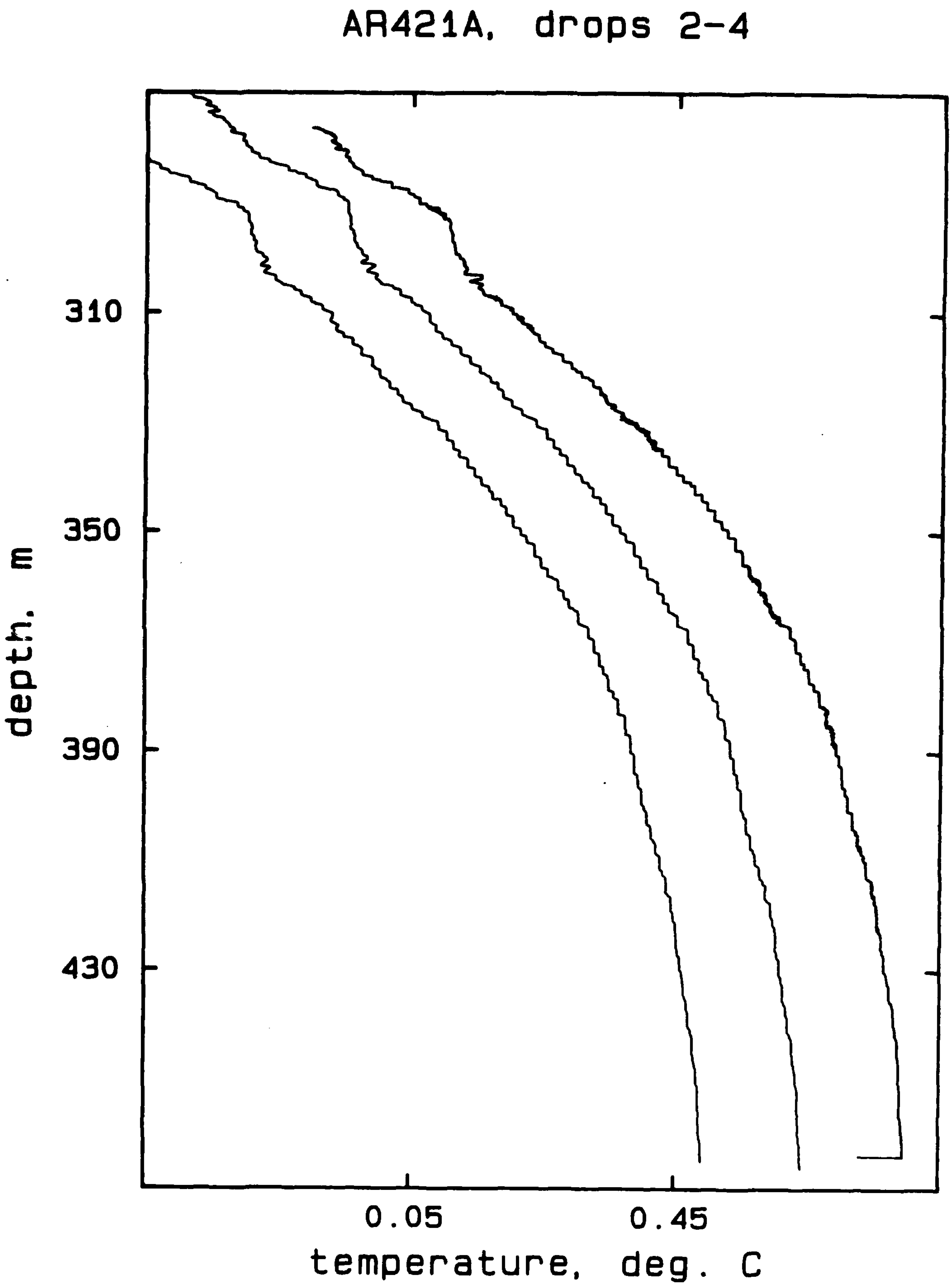

AR420A, drops 1-3
50
100
depth, m
-1.55 -1.45 -1.35 -1.25 -1.15 -1.05
temperature, deg. C

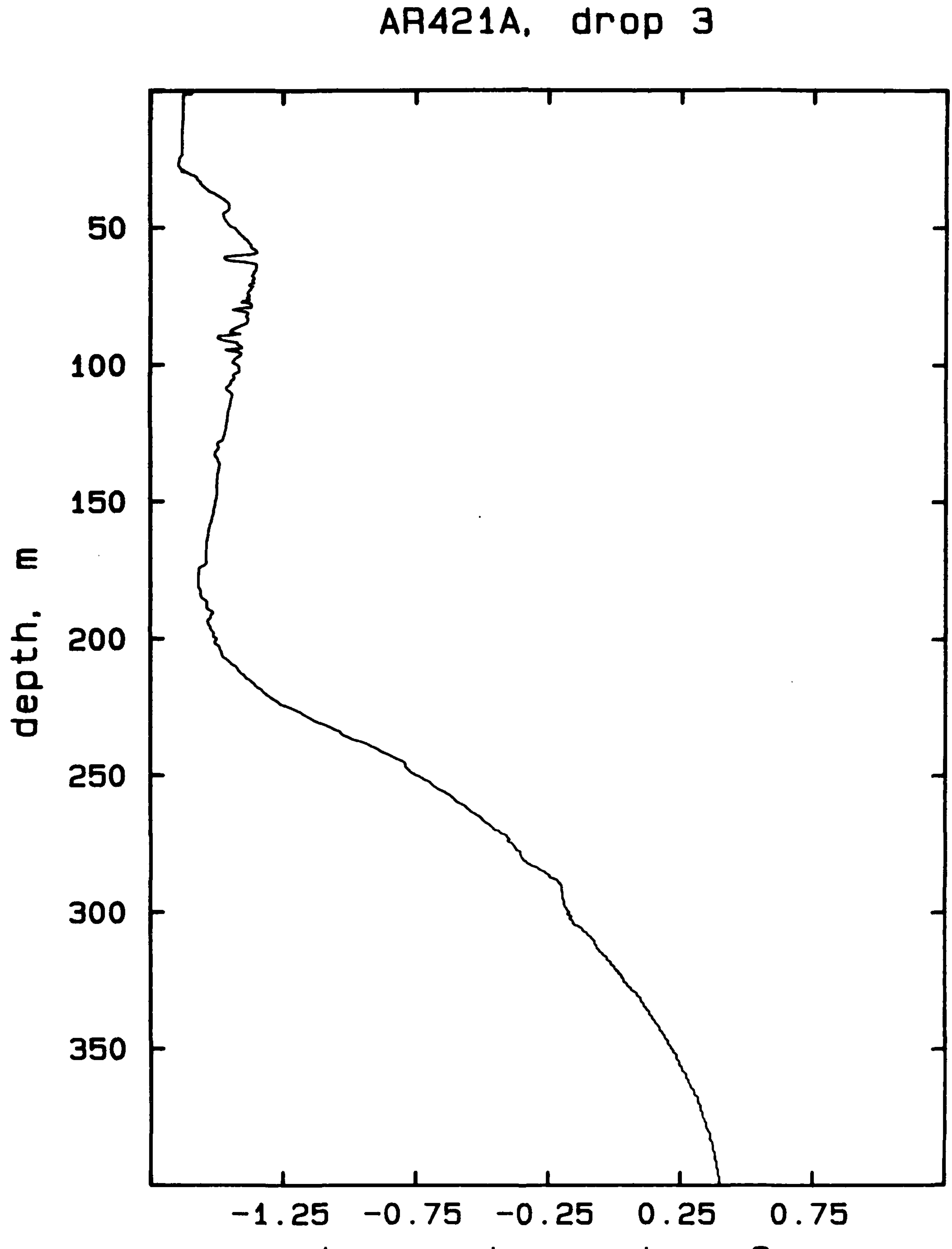

AR420A, drops 4-6
50
100
depth, m
-1.55 -1.45 -1.35 -1.25 -1.15 -1.05
temperature, deg. C

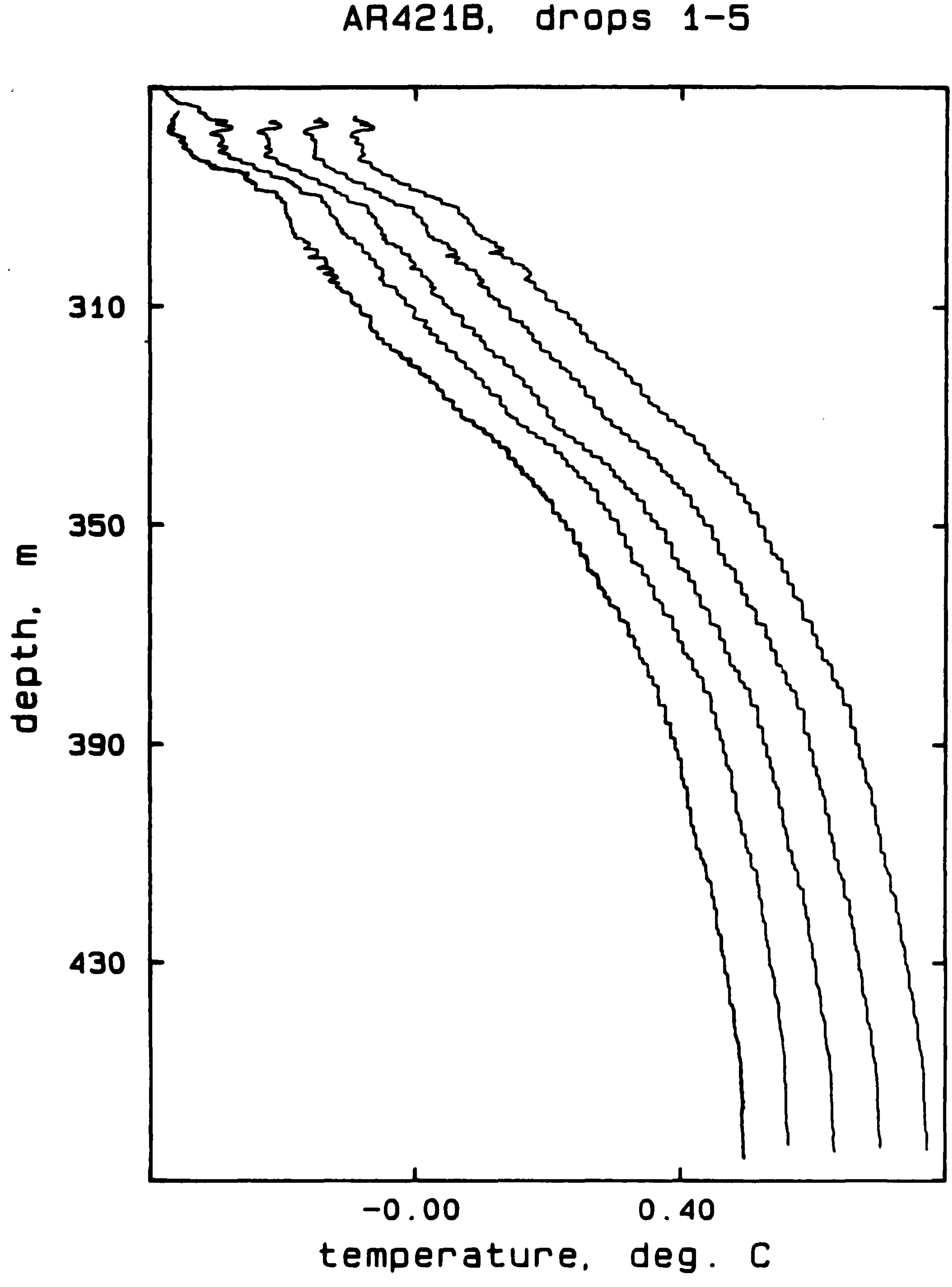

AR420A, drops 7-9
50
100
depth, m
-1.55 -1.45 -1.35 -1.25 -1.15 -1.05
temperature, deg. C

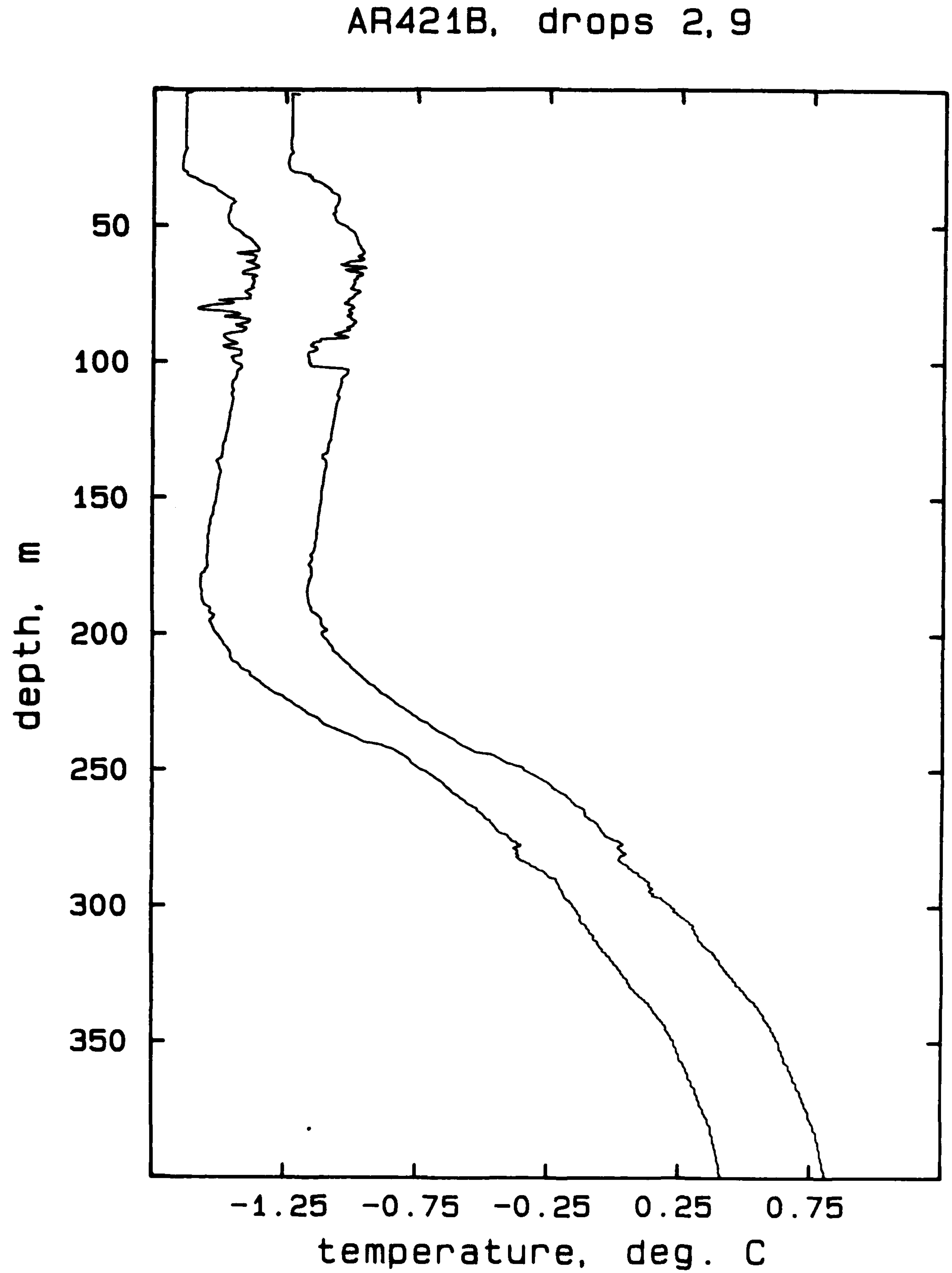

AR420A, drops 1, 10
290
300
310
320
330
340
350
360
370
depth, m
-0.15
0.05
0.25
0.45
temperature, deg. C


AR420B, drops 1,2 AR420C, drop 1
depth, m
290
300
310
320
330
340
350
360
370
-0.15
0.05
0.25
0.45
temperature, deg. C

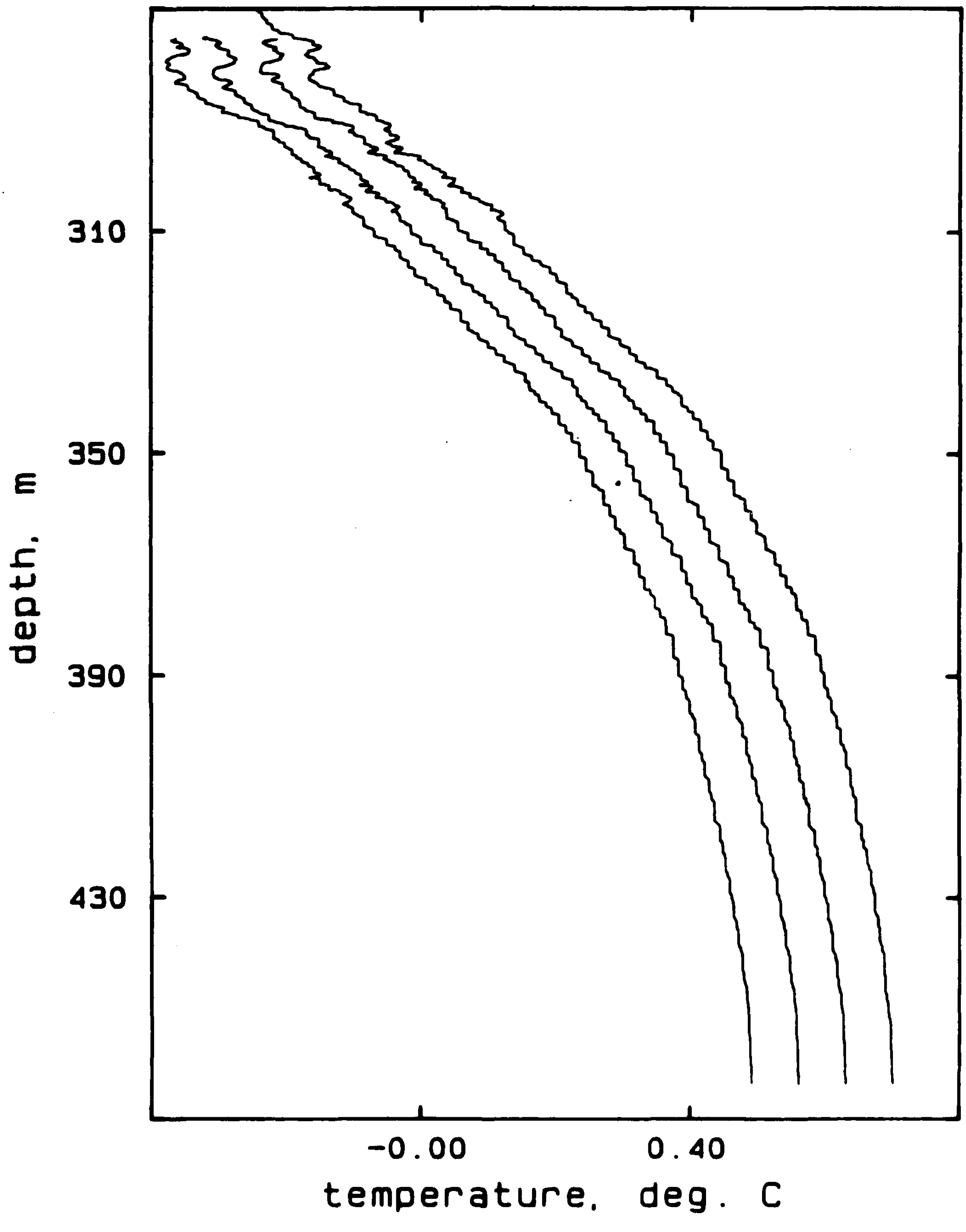

AR421A, drops 2-4
310
350
390
430
depth, m
0.05
0.45
temperature, deg. C

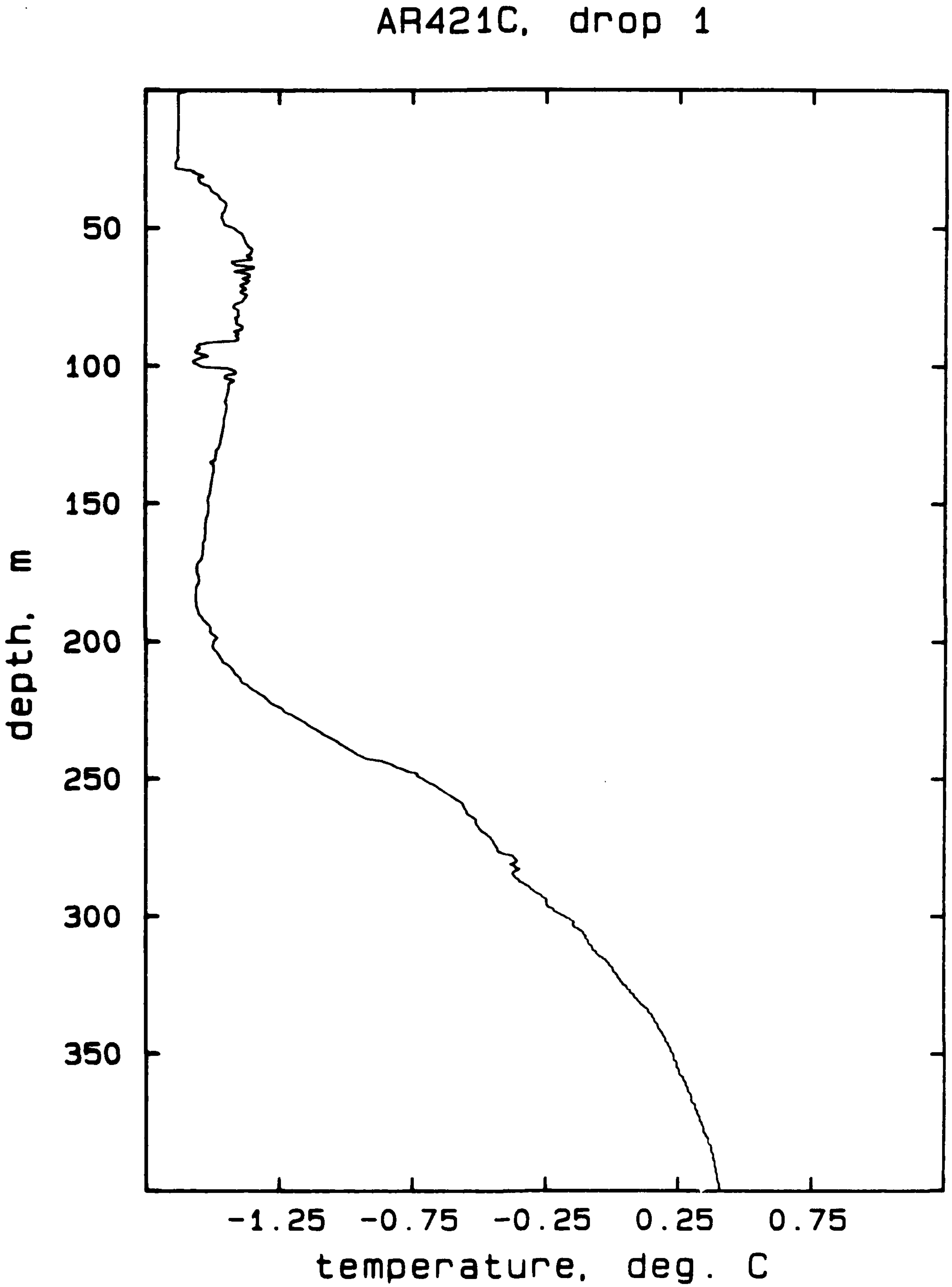

AR421A, drop 3
50
100
150
200
250
300
350
depth, m
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C

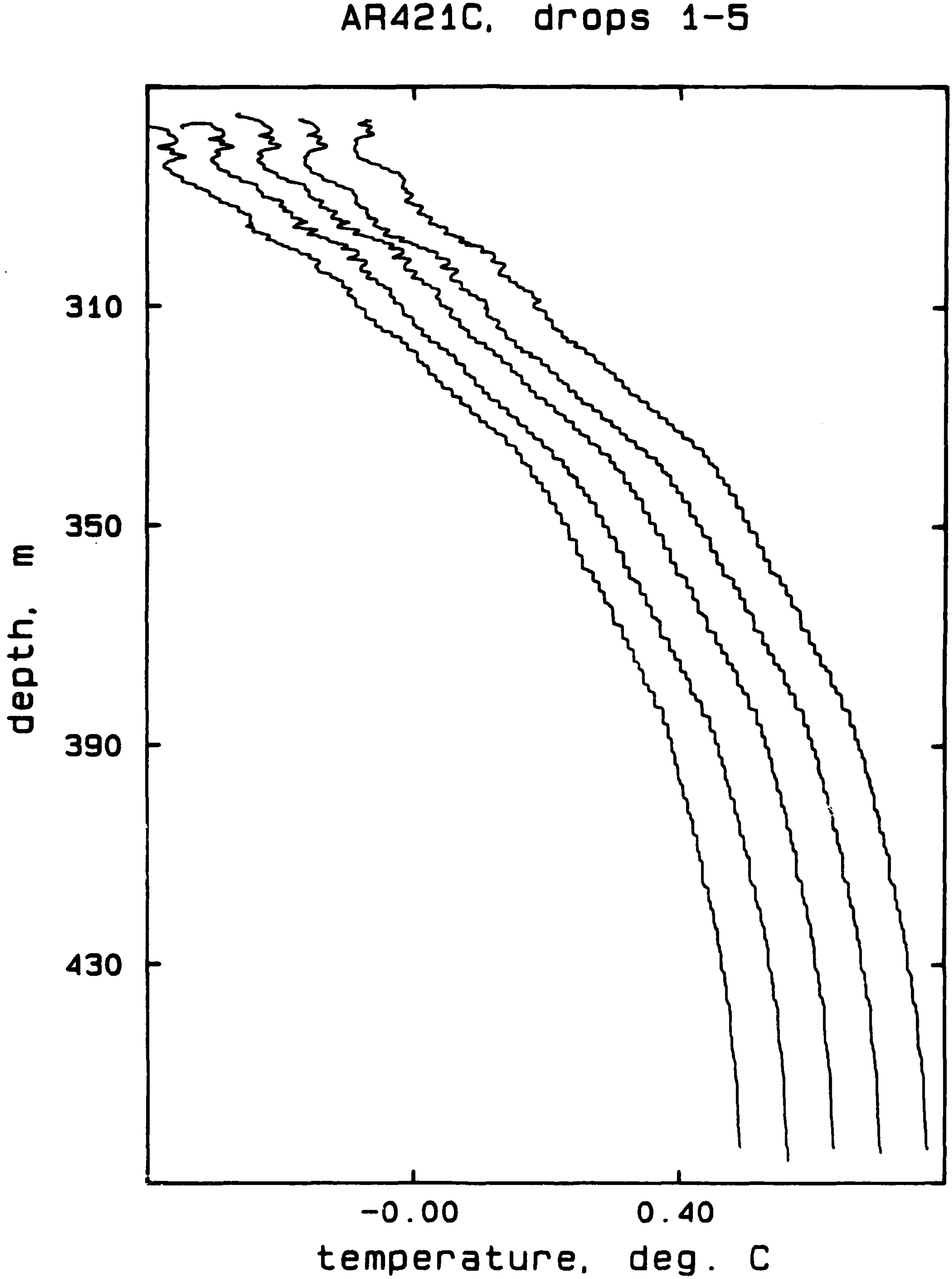

AR421B, drops 1-5
310
350
390
430
depth, m
-0.00
0.40
temperature, deg. C


AR421B, drops 2, 9
50
100
150
200
250
300
350
depth, m
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C

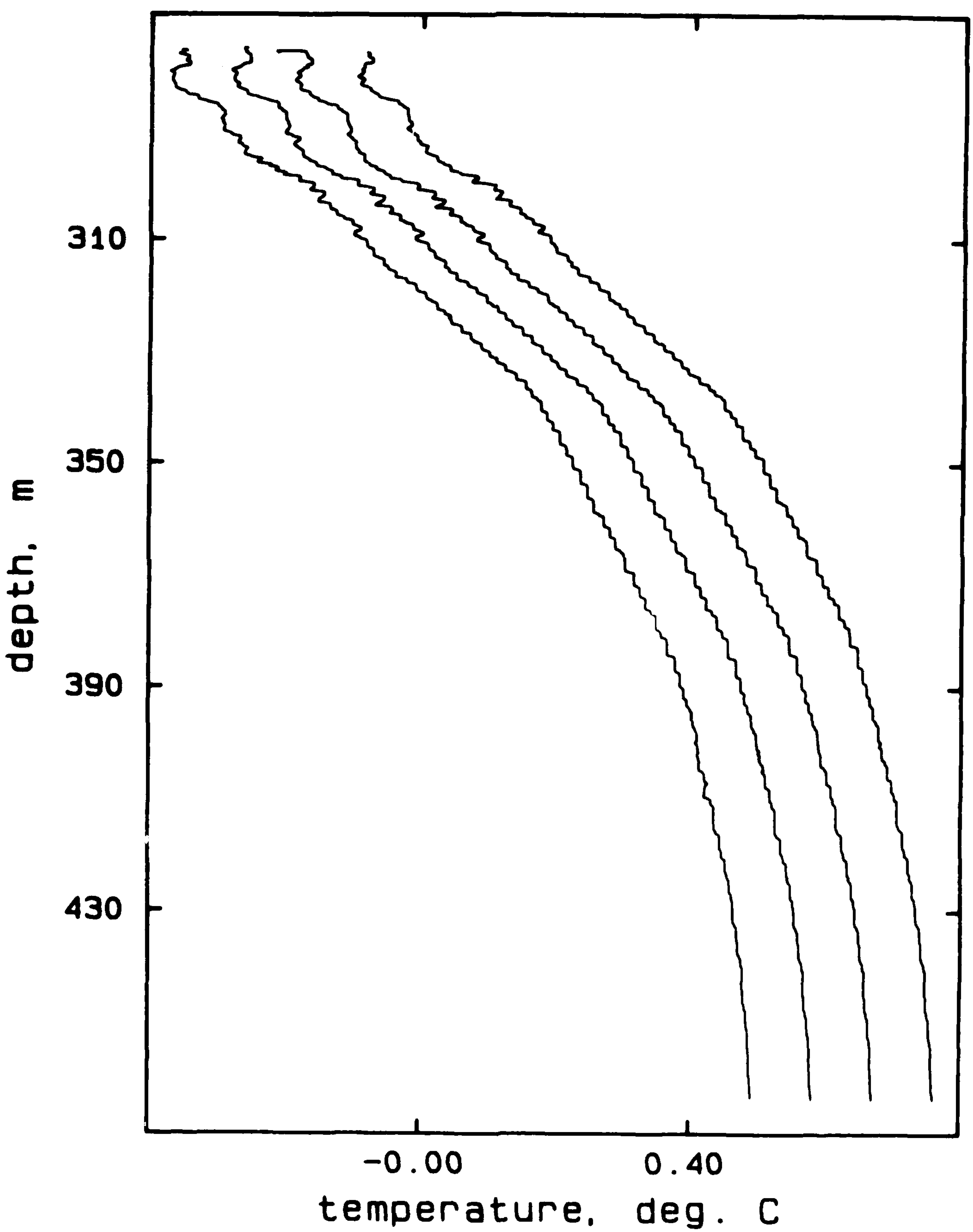
AR421B, drops 6-9

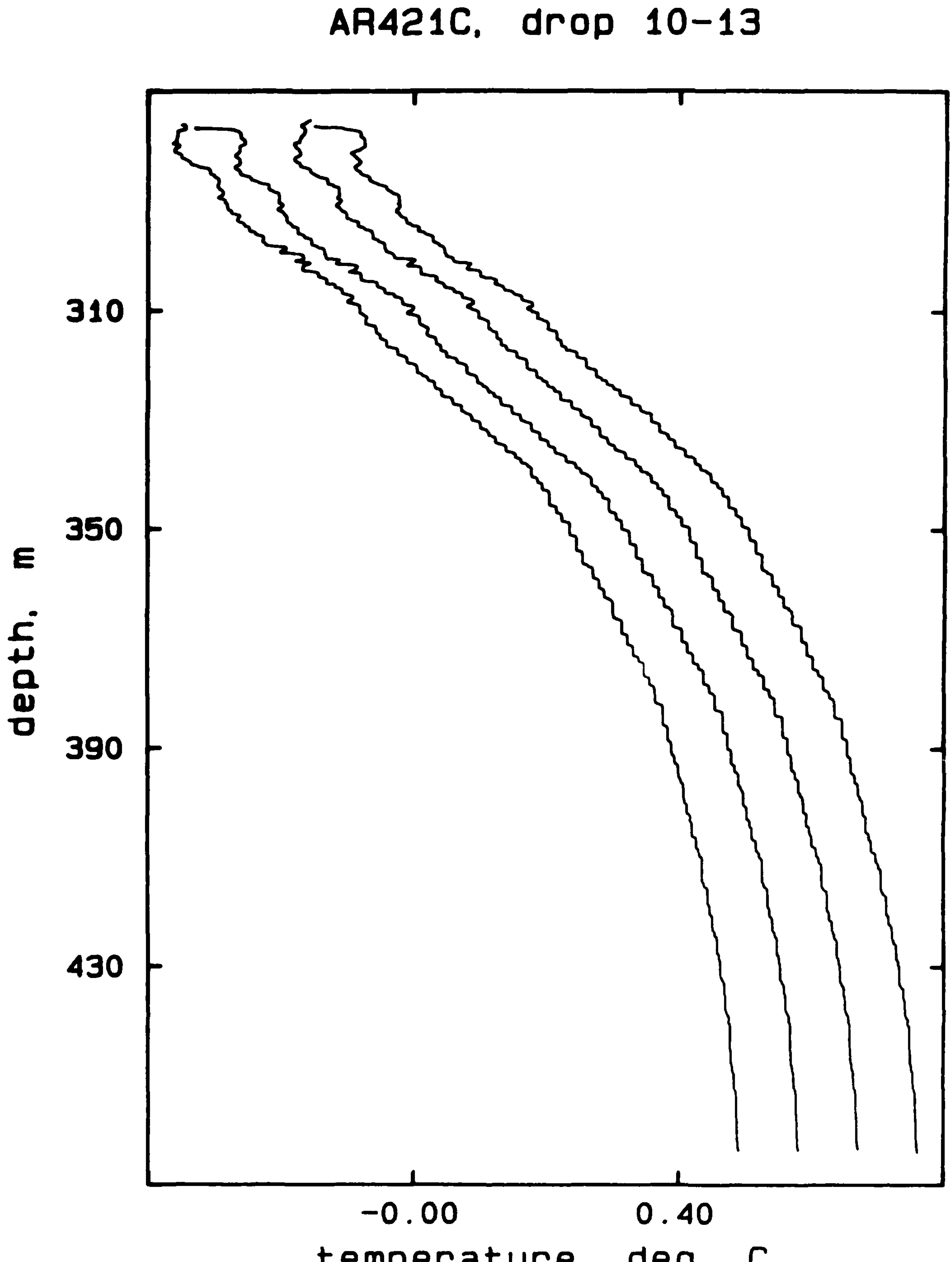


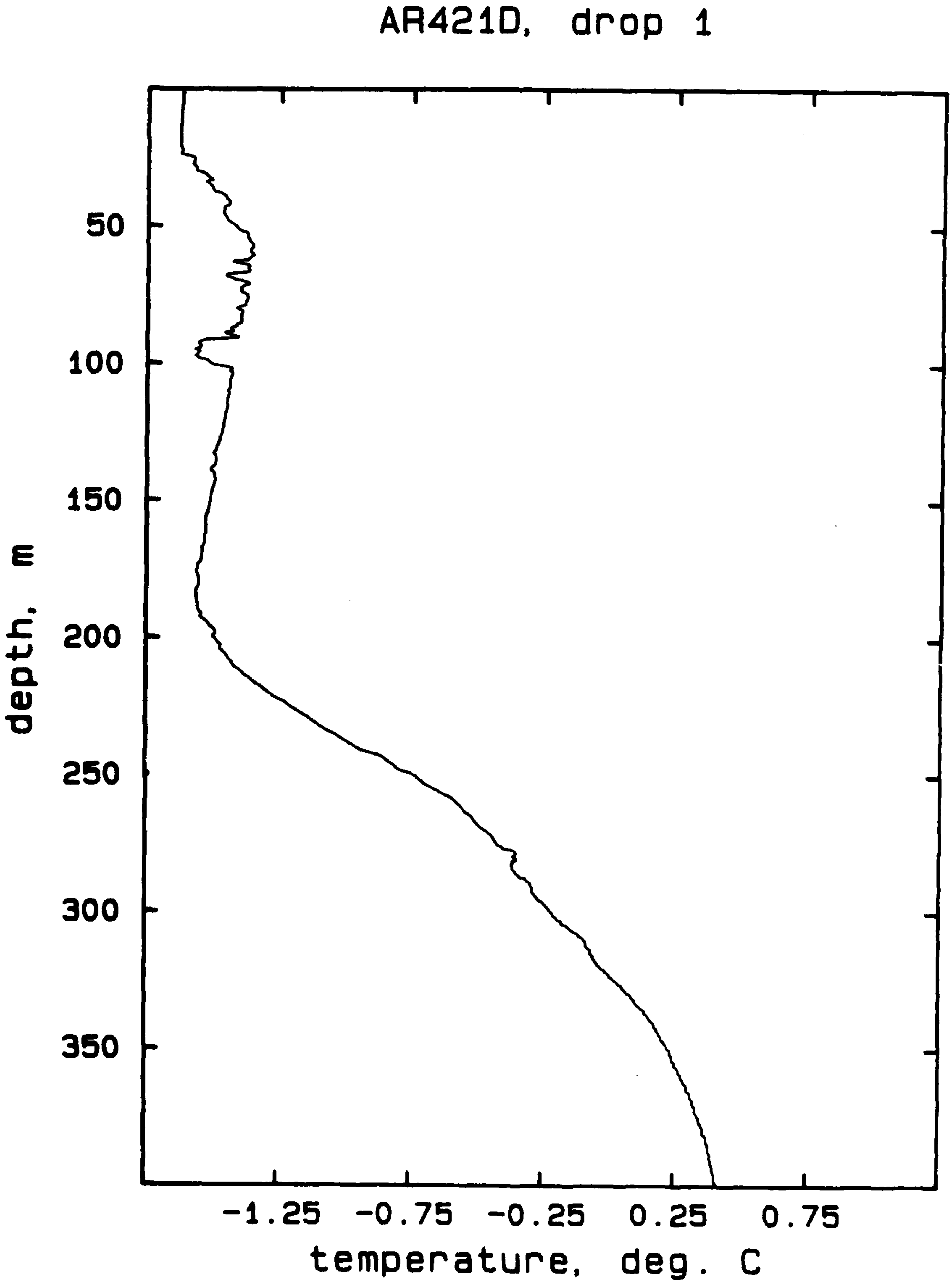

AR421C, drop 1
50
100
150
200
250
300
350
depth, m
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C

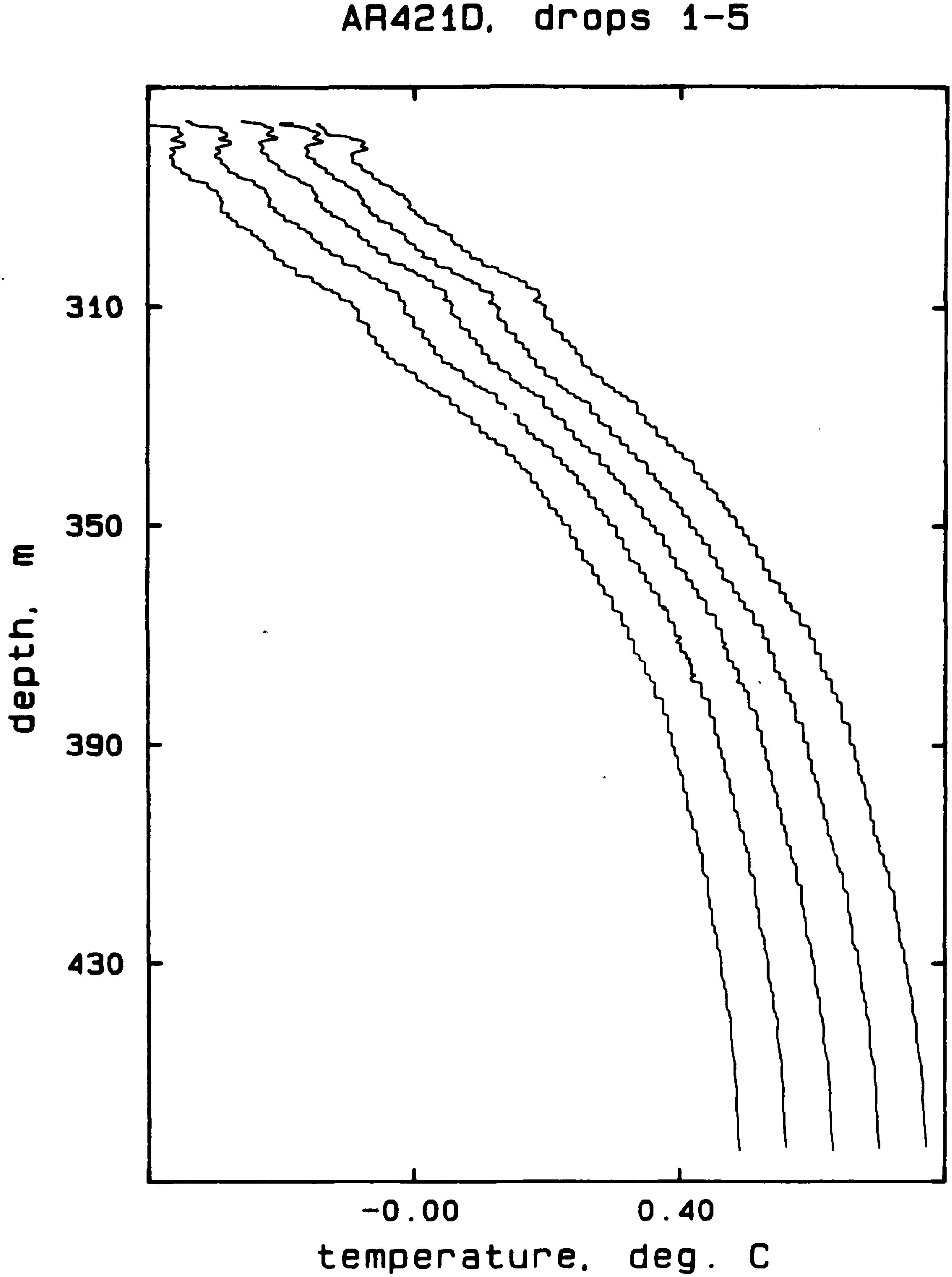

AR421C, drops 1-5
310
350
390
430
depth, m
-0.00
0.40
temperature, deg. C

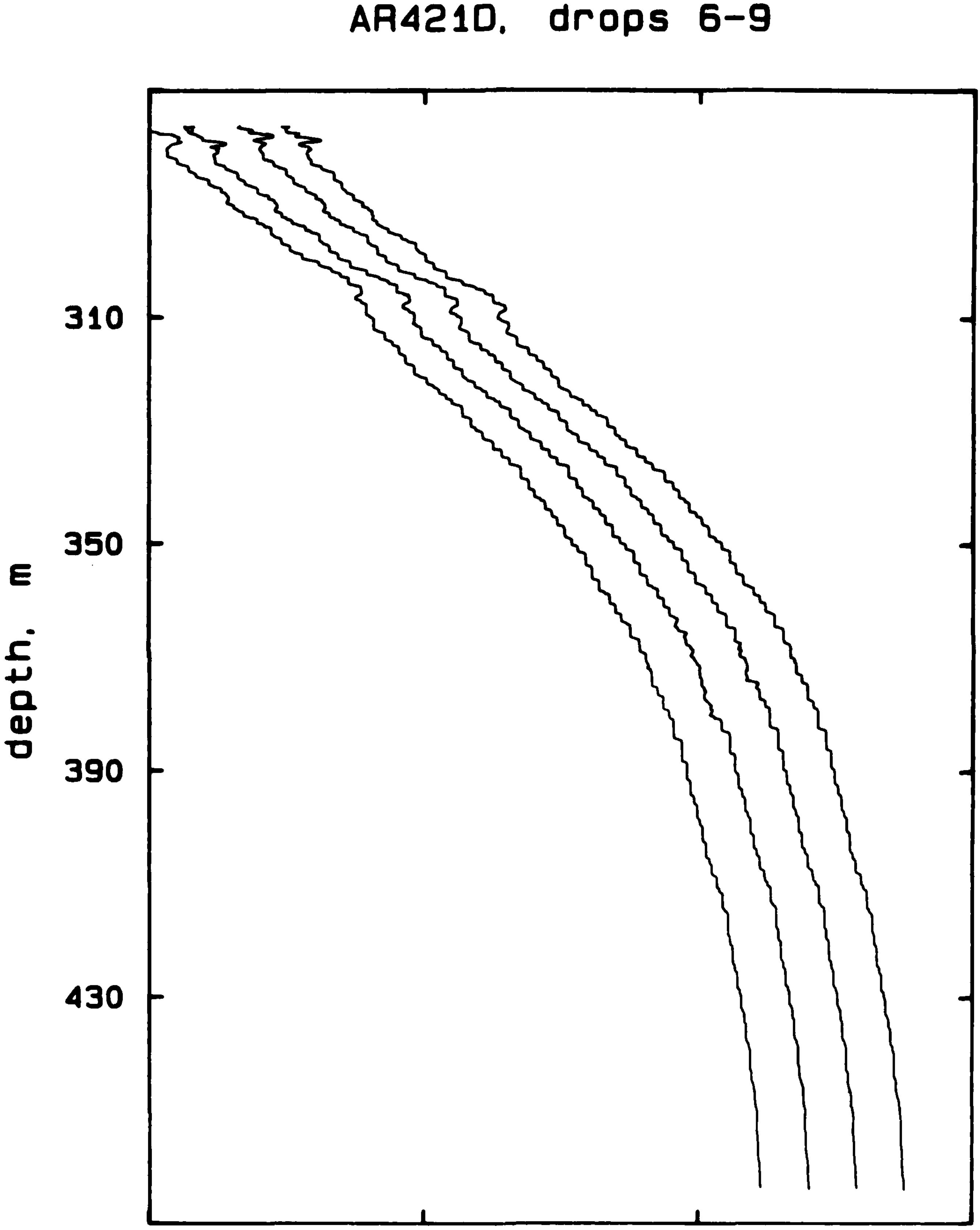
AR421C, drops 6-9

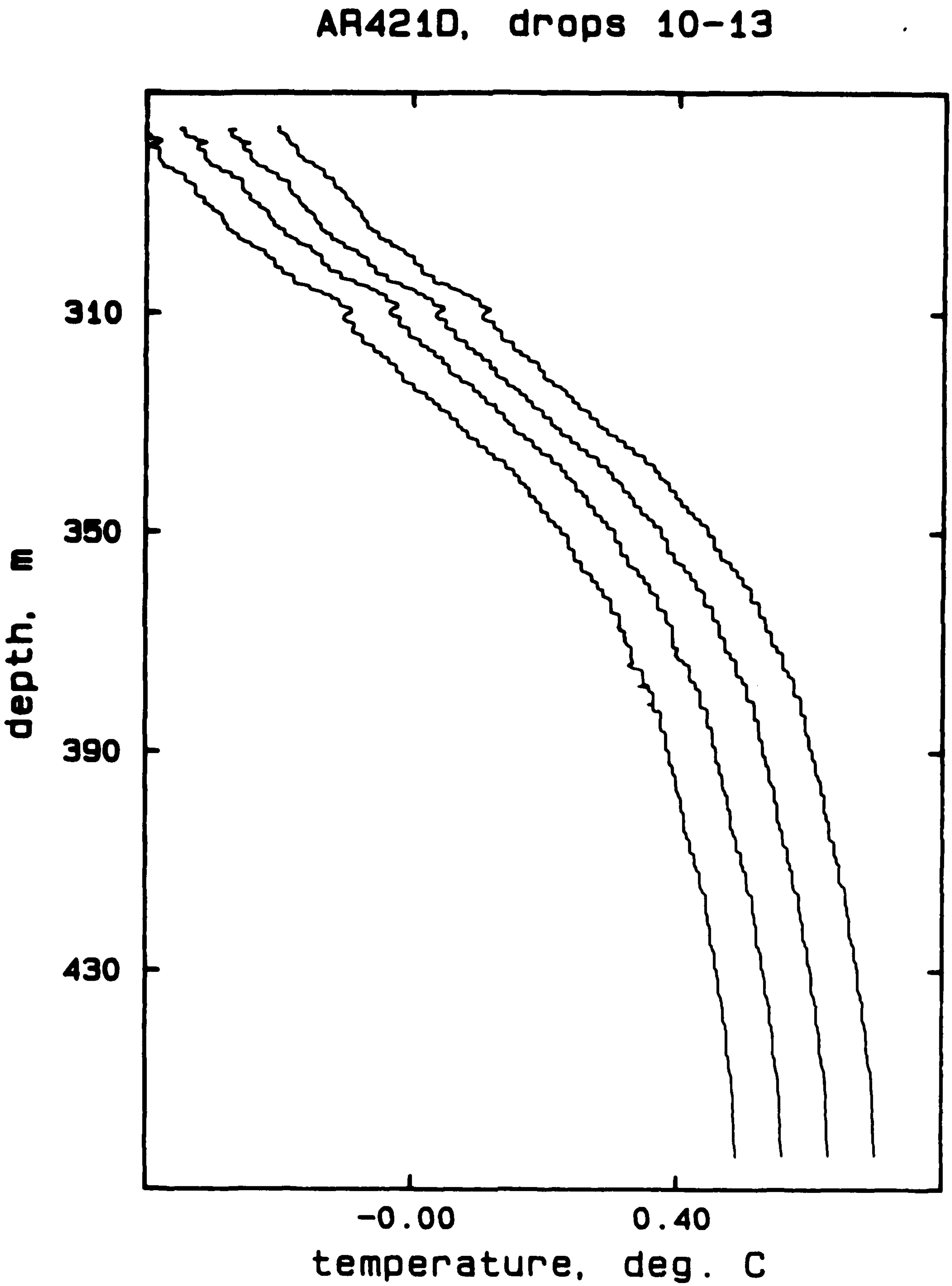


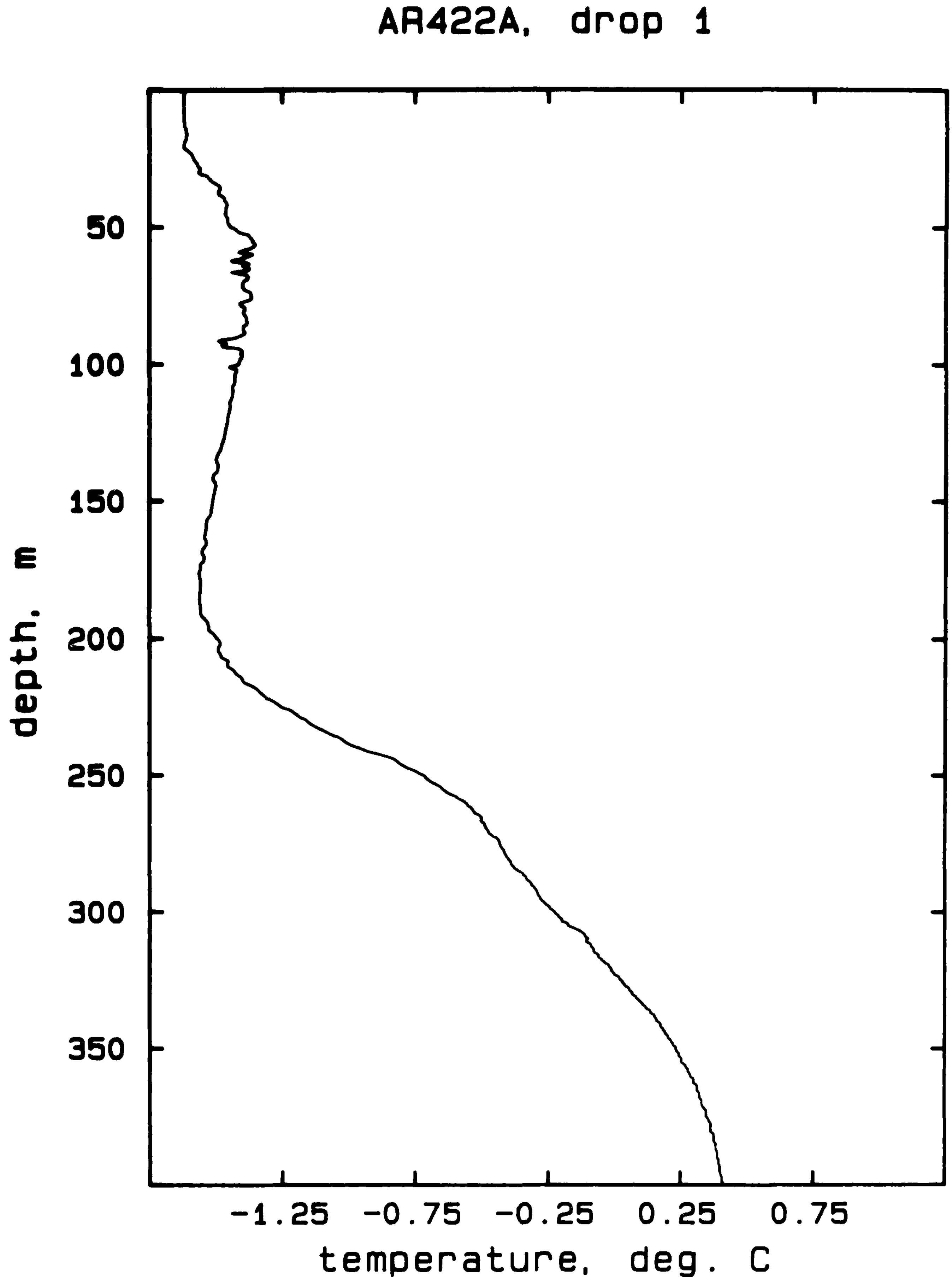

AR421C, drop 10-13
310
350
390
430
depth, m
-0.00
0.40
temperature, deg. C

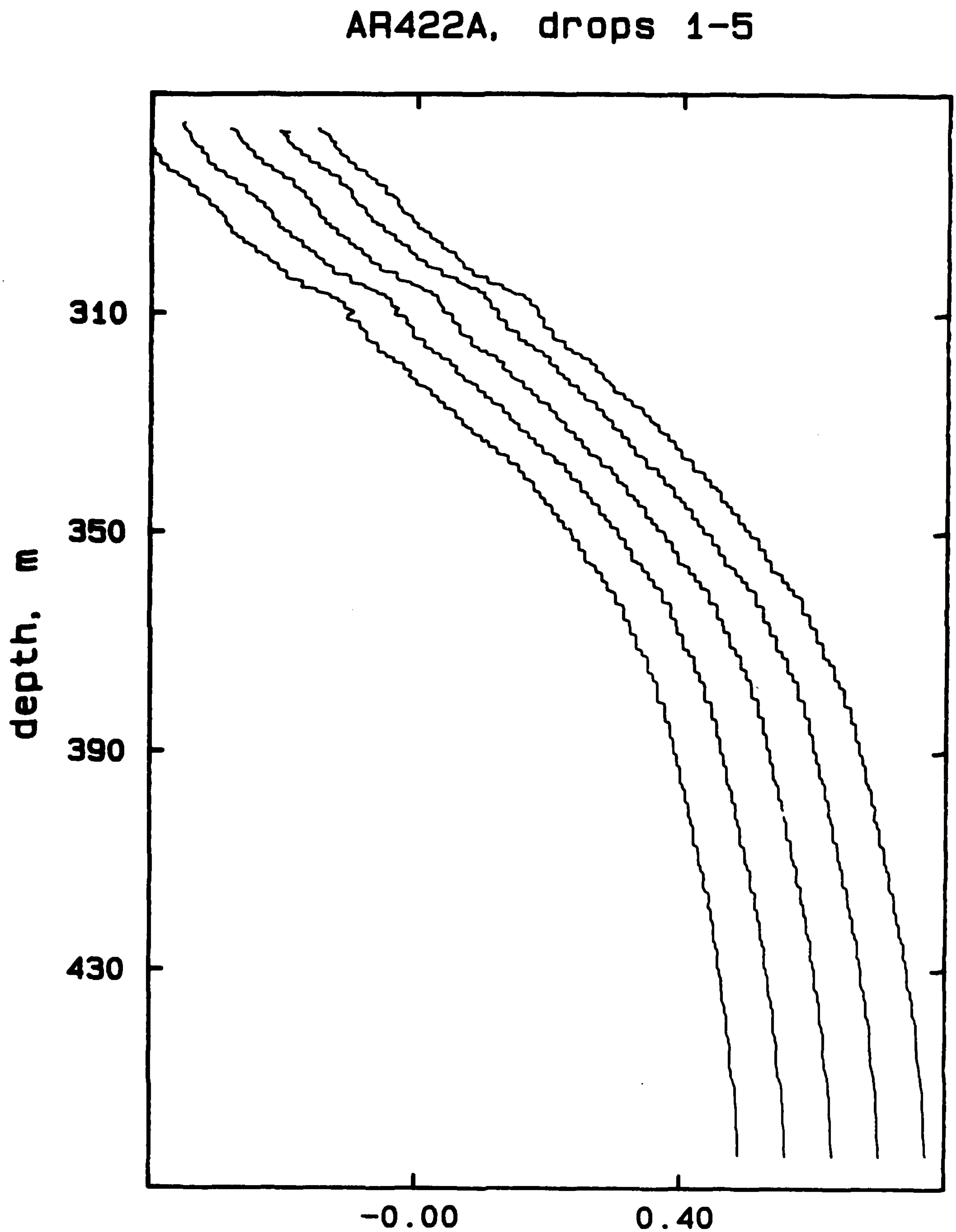

AR421D, drop 1
50
100
150
200
250
300
350
depth, m
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C

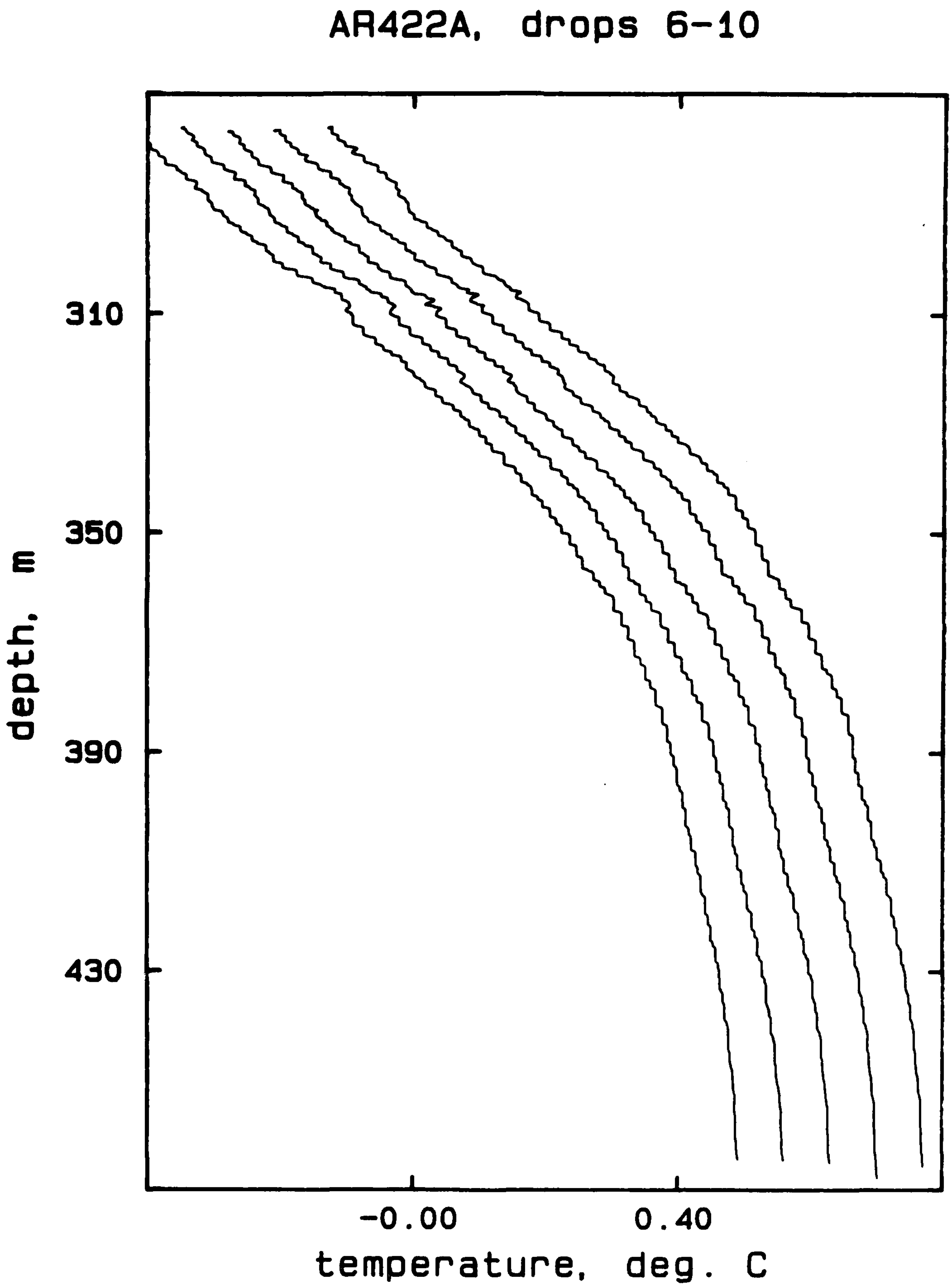

AR421D, drops 1-5
310
350
390
430
depth, m
-0.00
0.40
temperature, deg. C

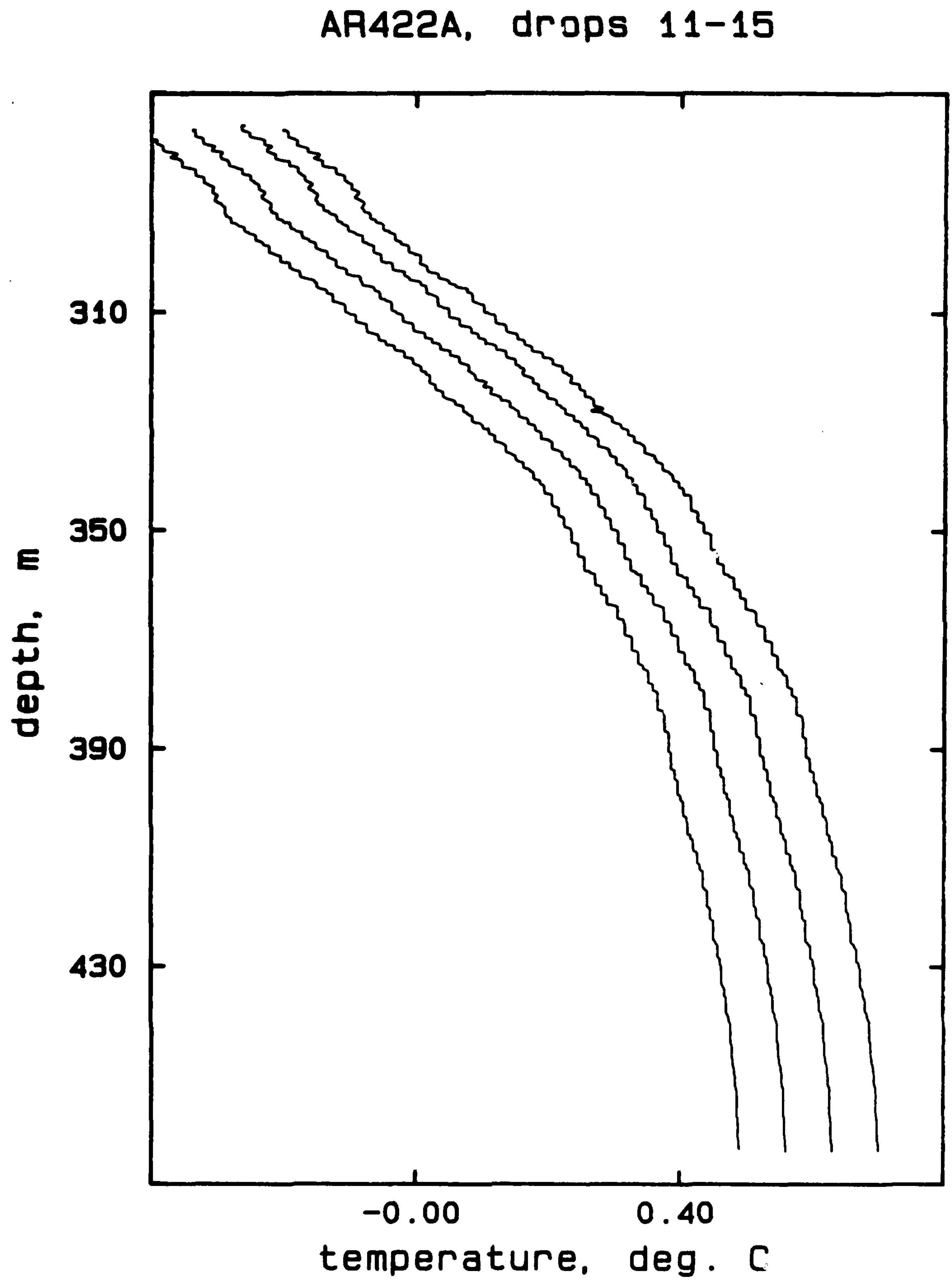

AR421D, drops 6-9
310
350
390
430
depth, m
-0.00
0.40
temperature, deg. C

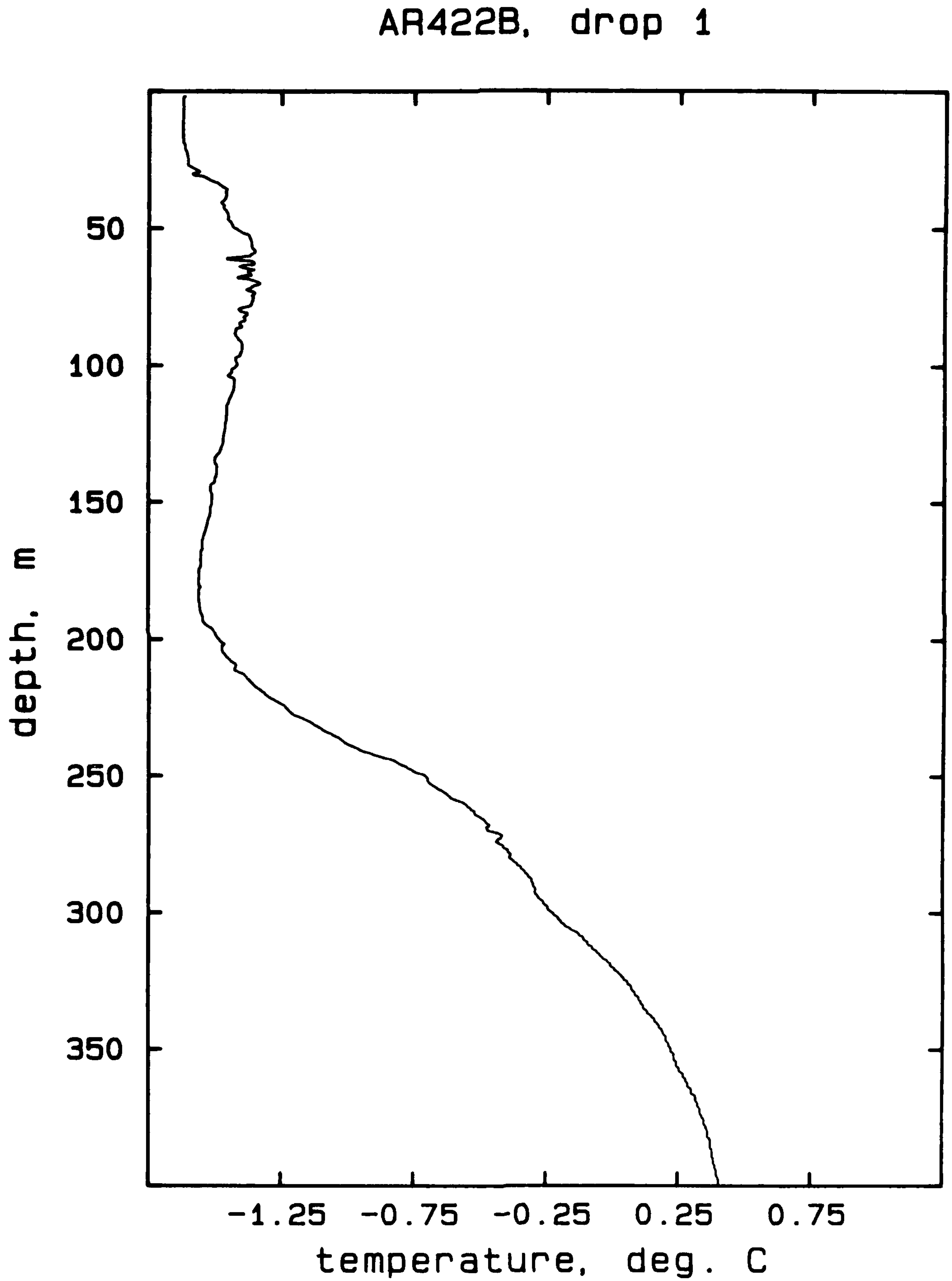

AR421D, drops 10-13
310
350
390
430
depth, m
-0.00
0.40
temperature, deg. C


AR422A, drop 1
50
100
150
200
250
300
350
depth, m
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C

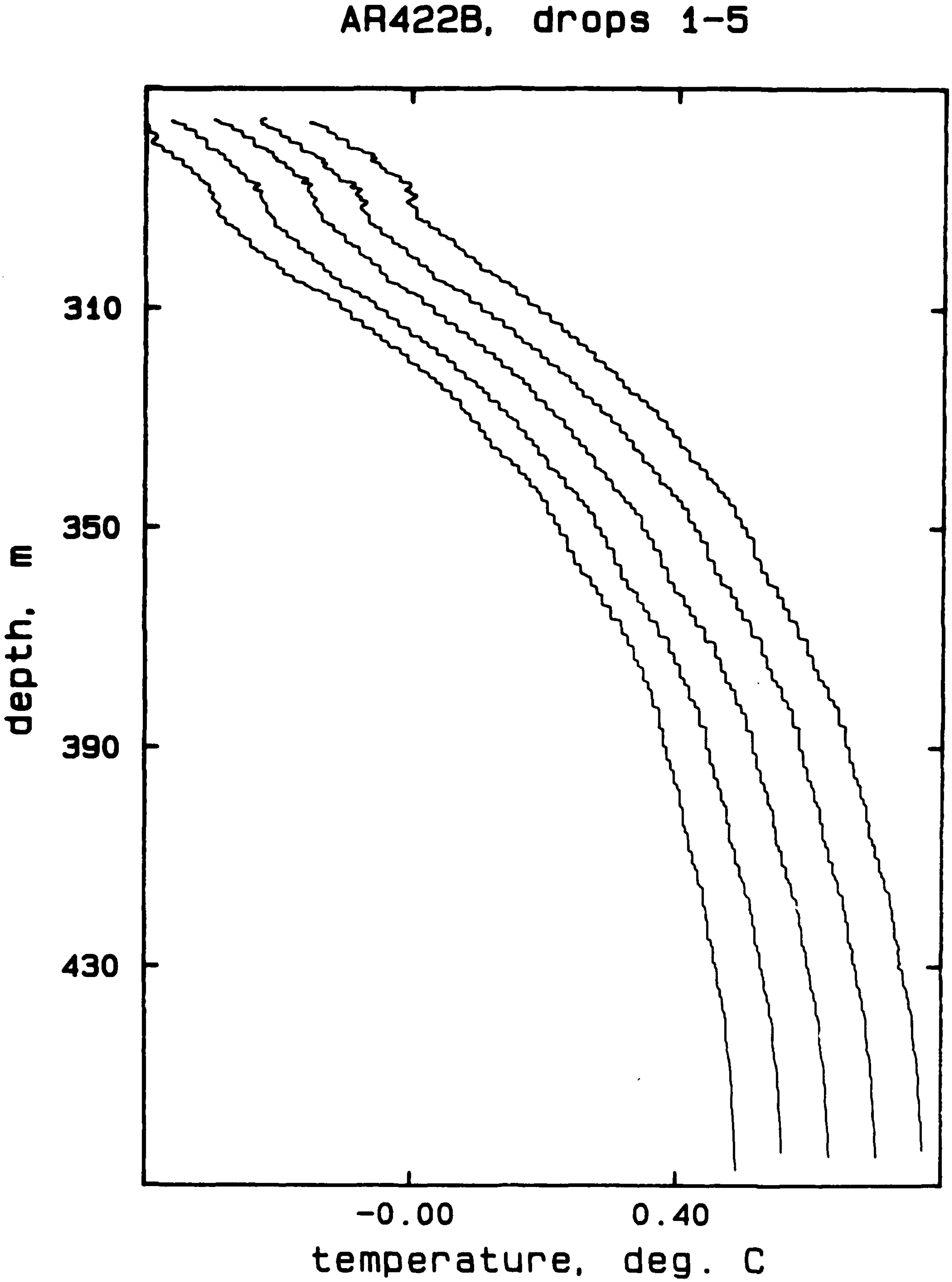

AR422A, drops 1-5
310
350
390
430
depth, m
-0.00
0.40
temperature, deg. C

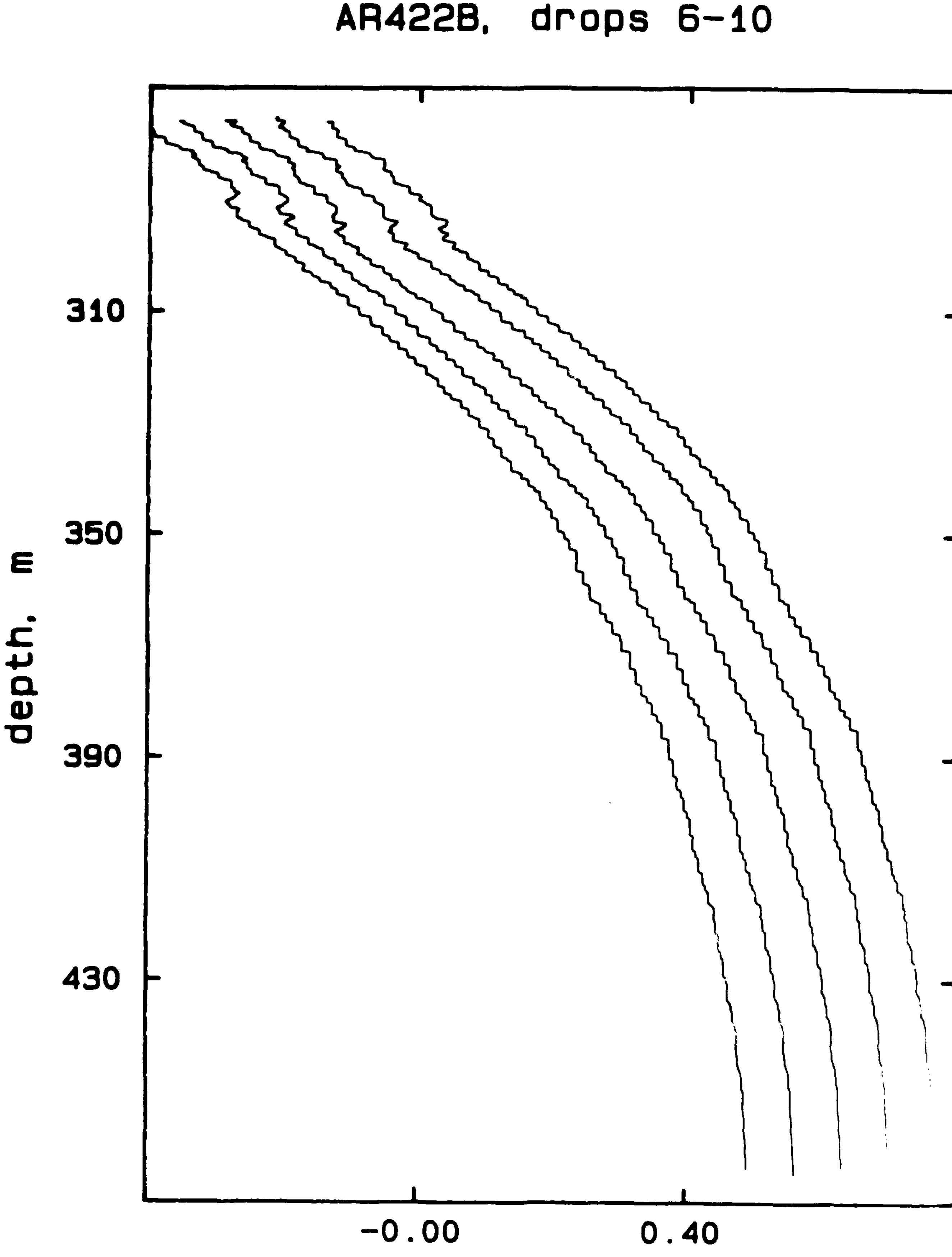

AR422A, drops 6-10
310
350
390
430
depth, m
-0.00
0.40
temperature, deg. C


AR422A, drops 11-15
310
350
390
430
depth, m
-0.00
0.40
temperature, deg. C

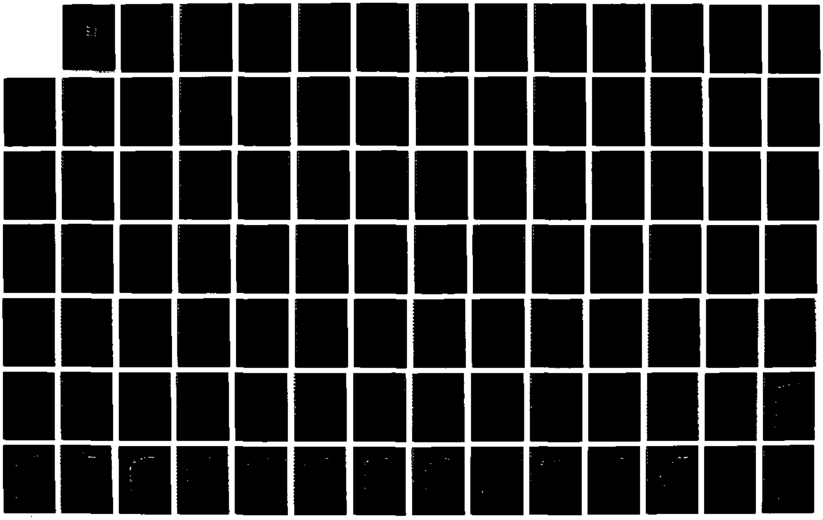


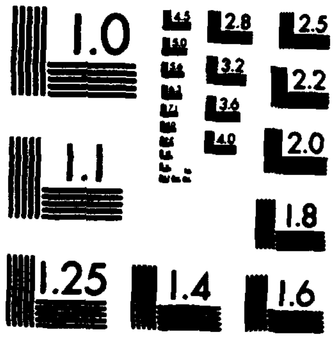
AR422B, drop 1
50
100
150
200
250
300
350
depth, m
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C


AR422B, drops 1-5
310
350
390
430
depth, m
-0.00
0.40
temperature, deg. C


AR422B, drops 6-10
310
350
390
430
depth, m
-0.00
0.40
temperature, deg. C

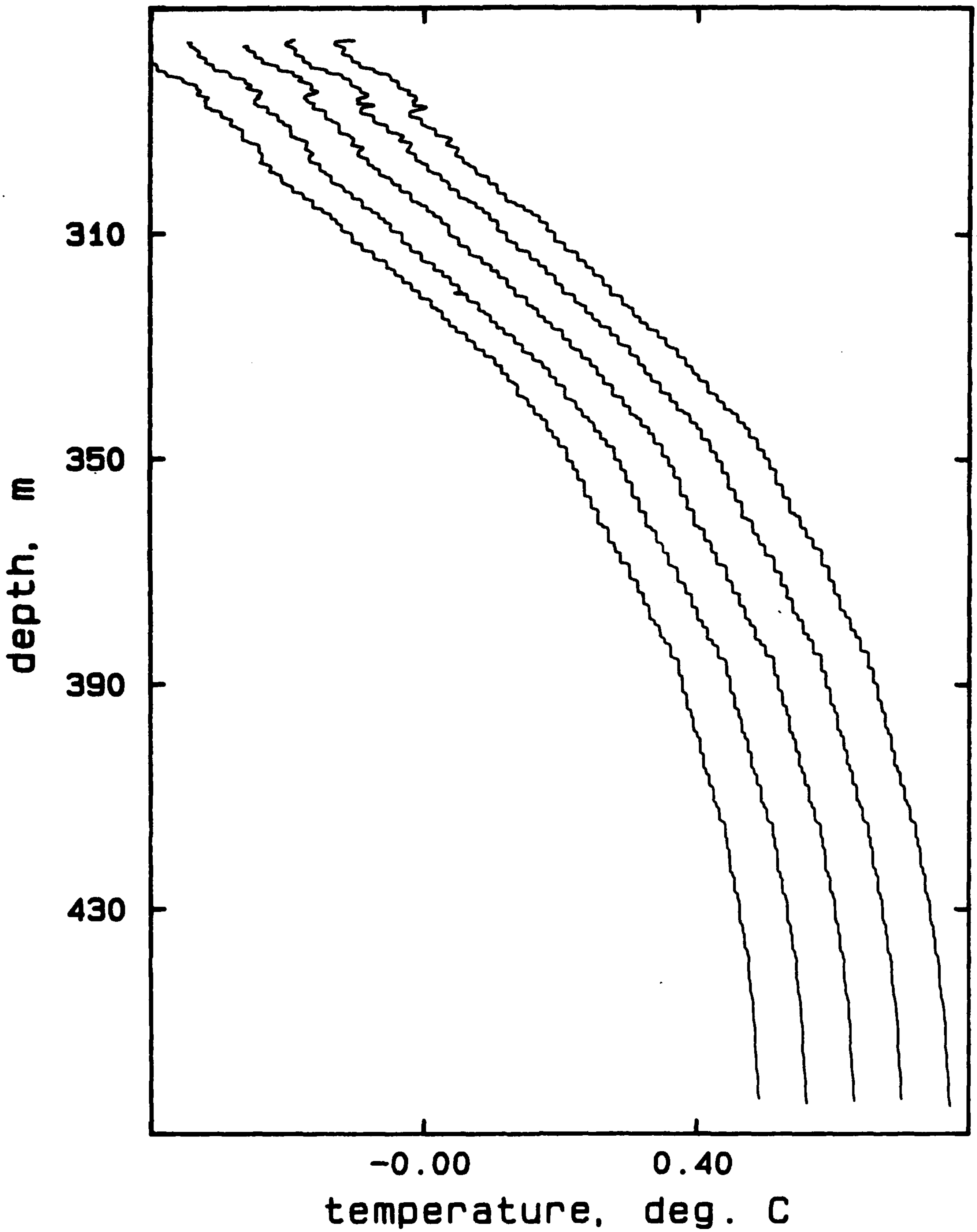
AD-A181 764 MICROSTRUCTURE CASTS DURING AIWEX (ARCTIC INTERNAL WAVE 4/5
EXPERIMENT) A SUMMARY(U) OREGON STATE UNIV CORVALLIS
COLL OF OCEANOGRAPHY T M DILLON ET AL. APR 85 DATA-122
UNCLASSIFIED N00014-84-C-0218 F/G 8/3 NL

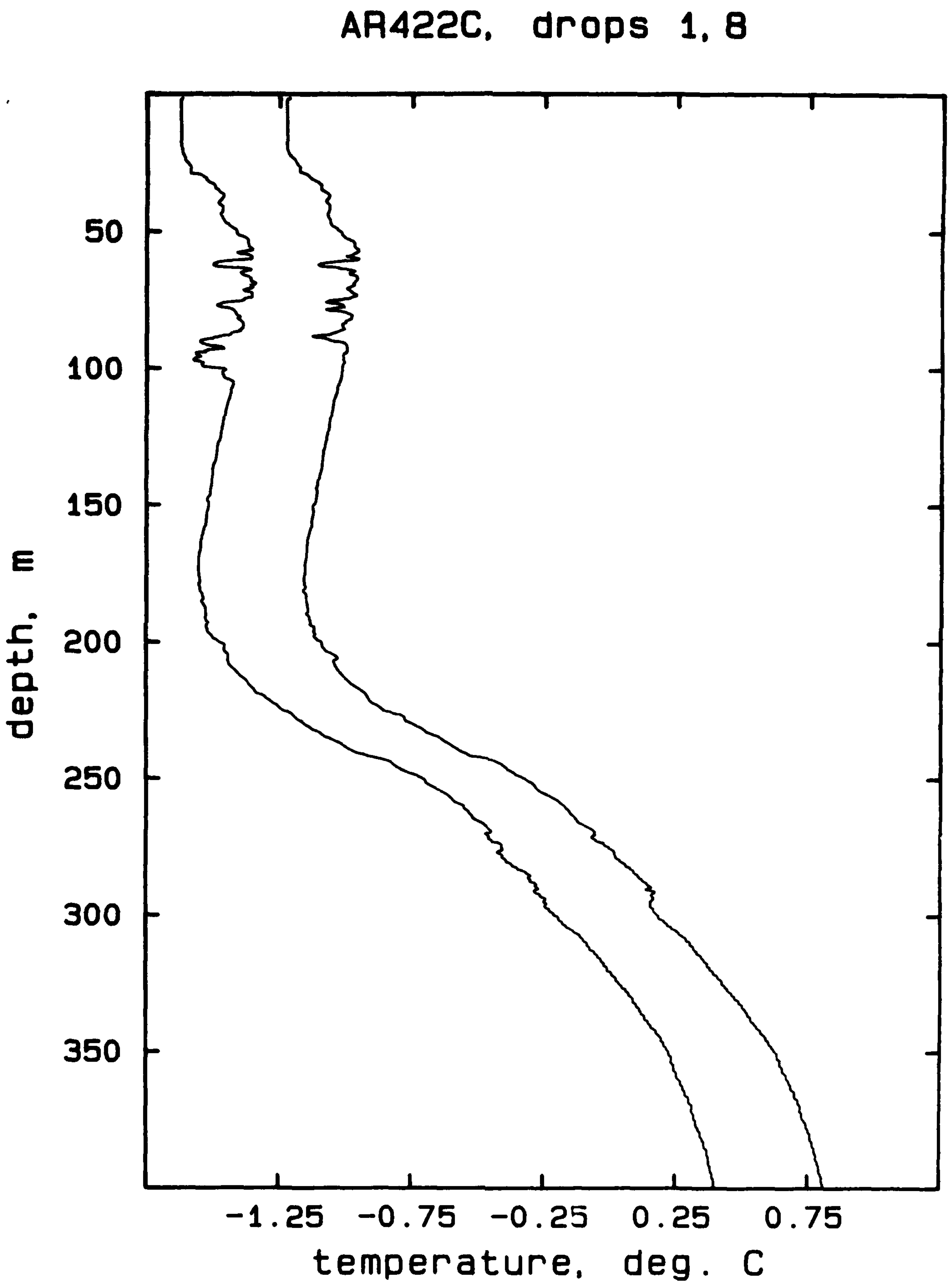




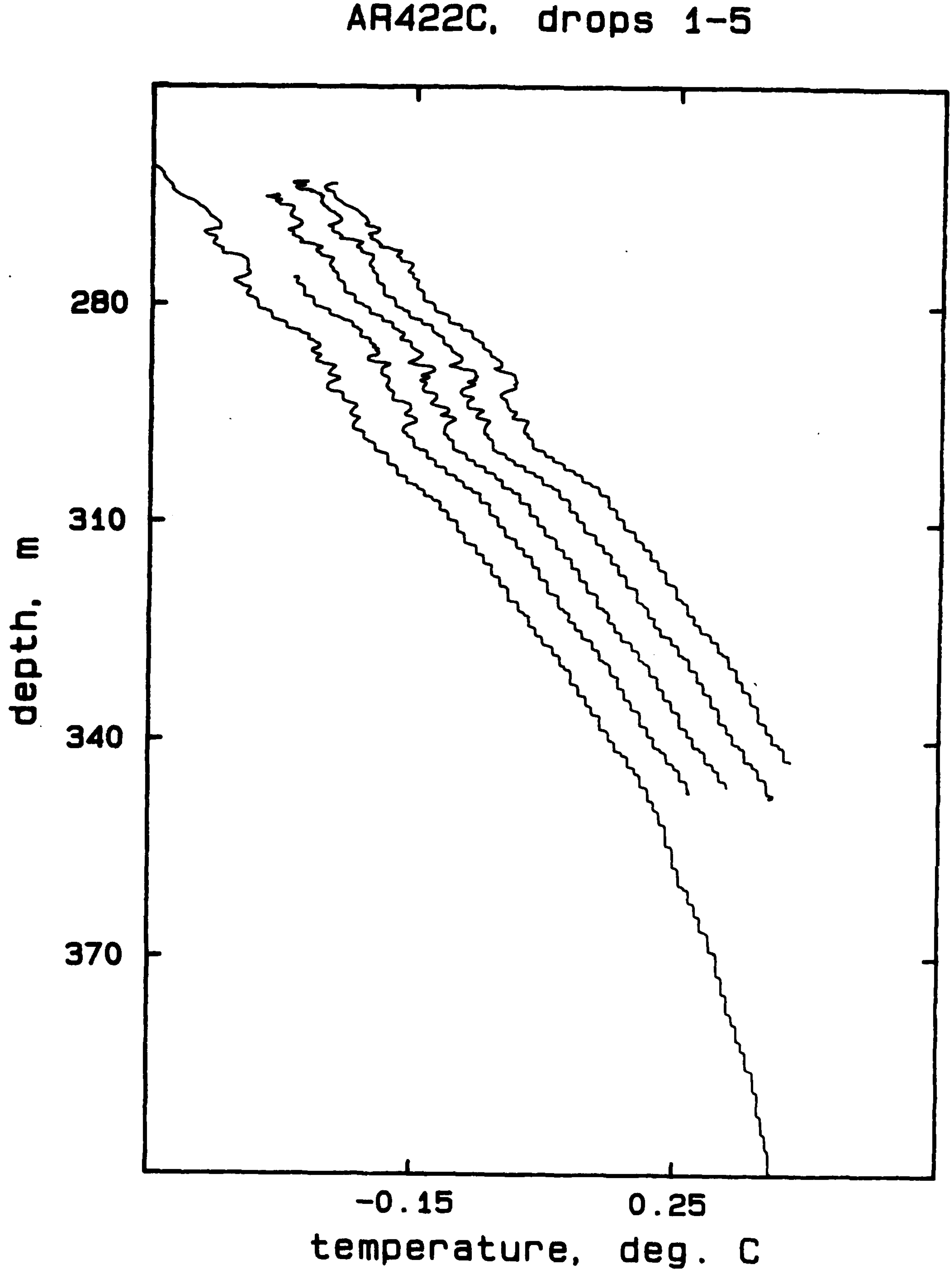
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

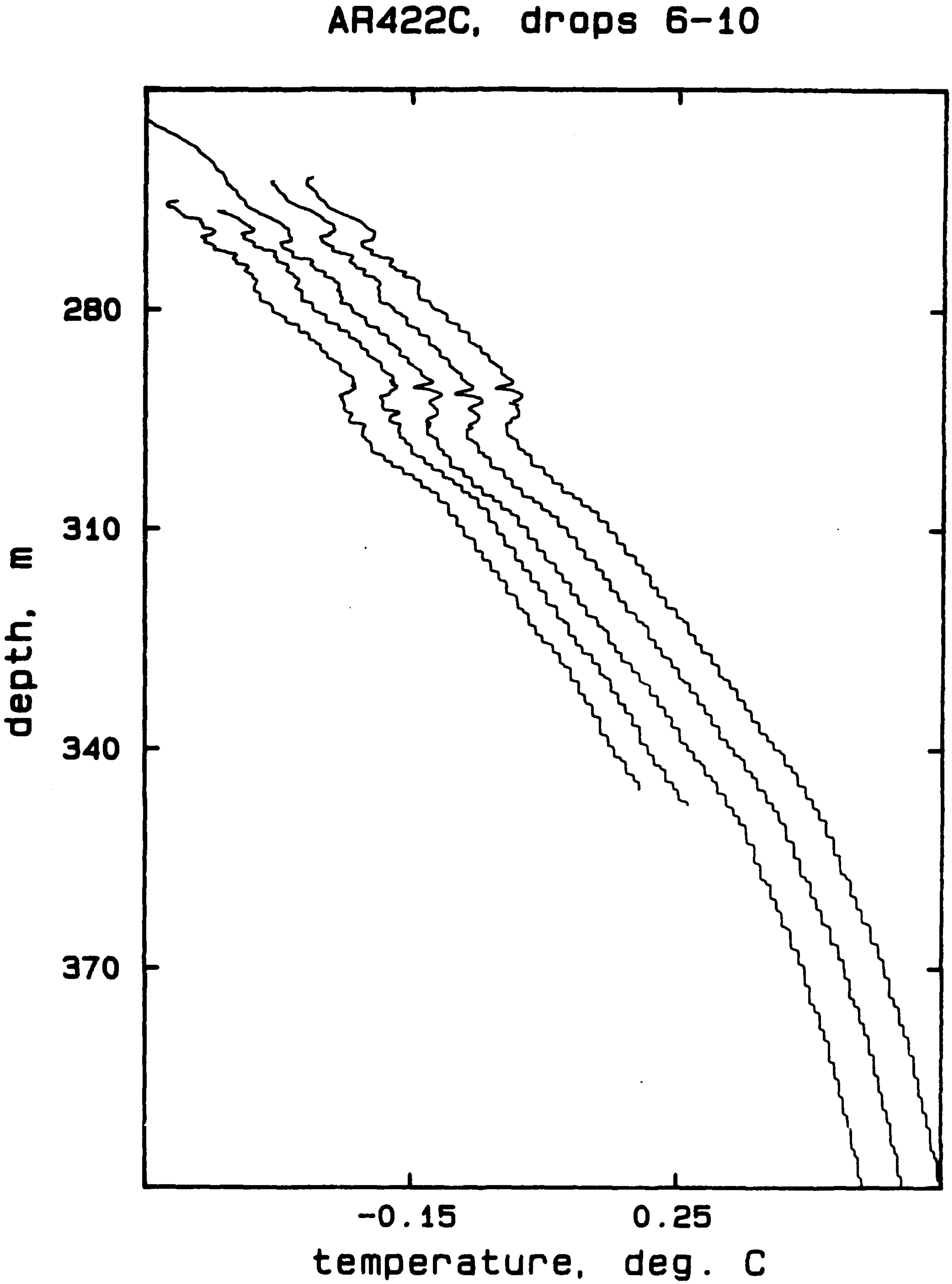
AR422B, drops 11-15

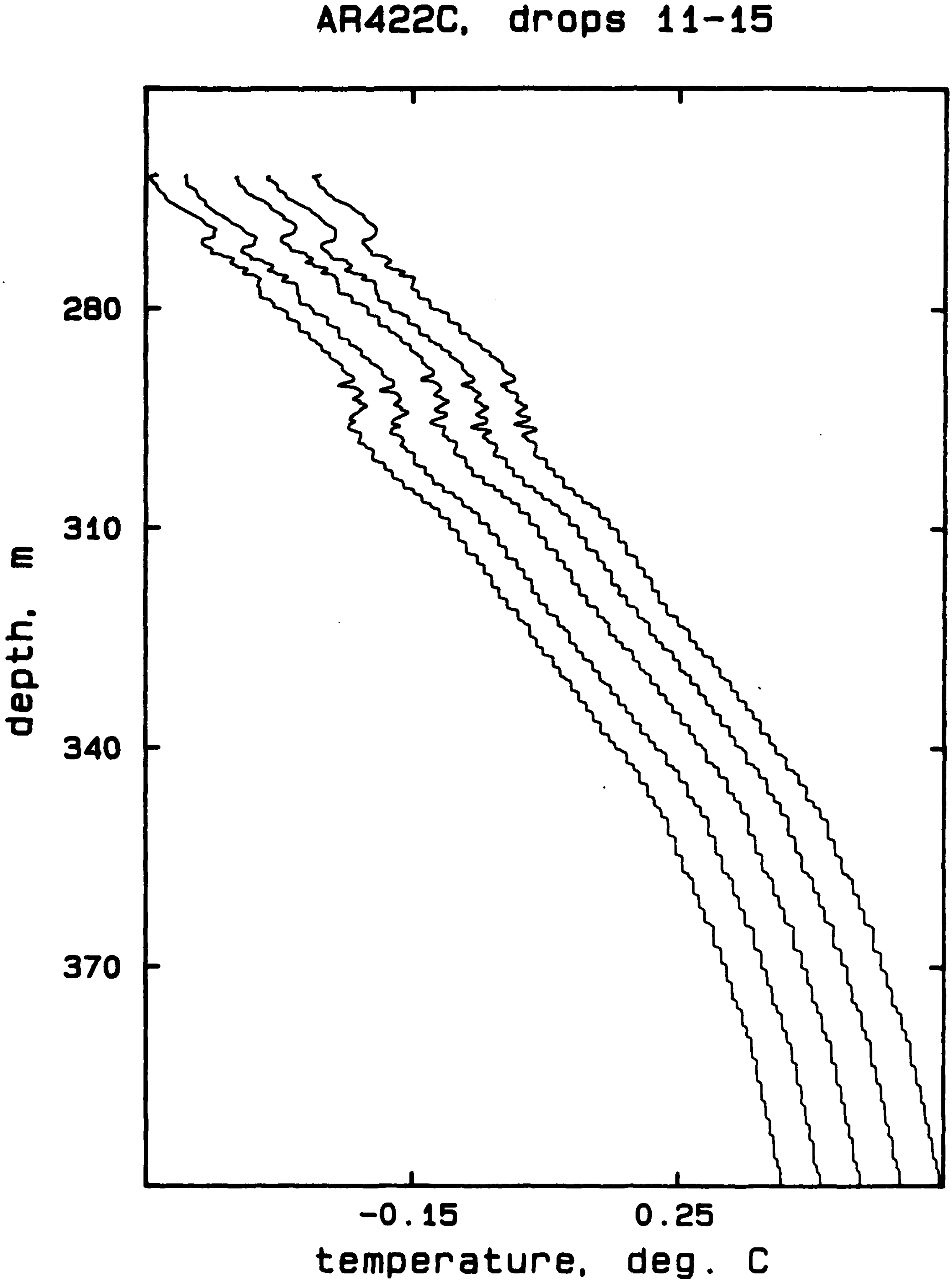




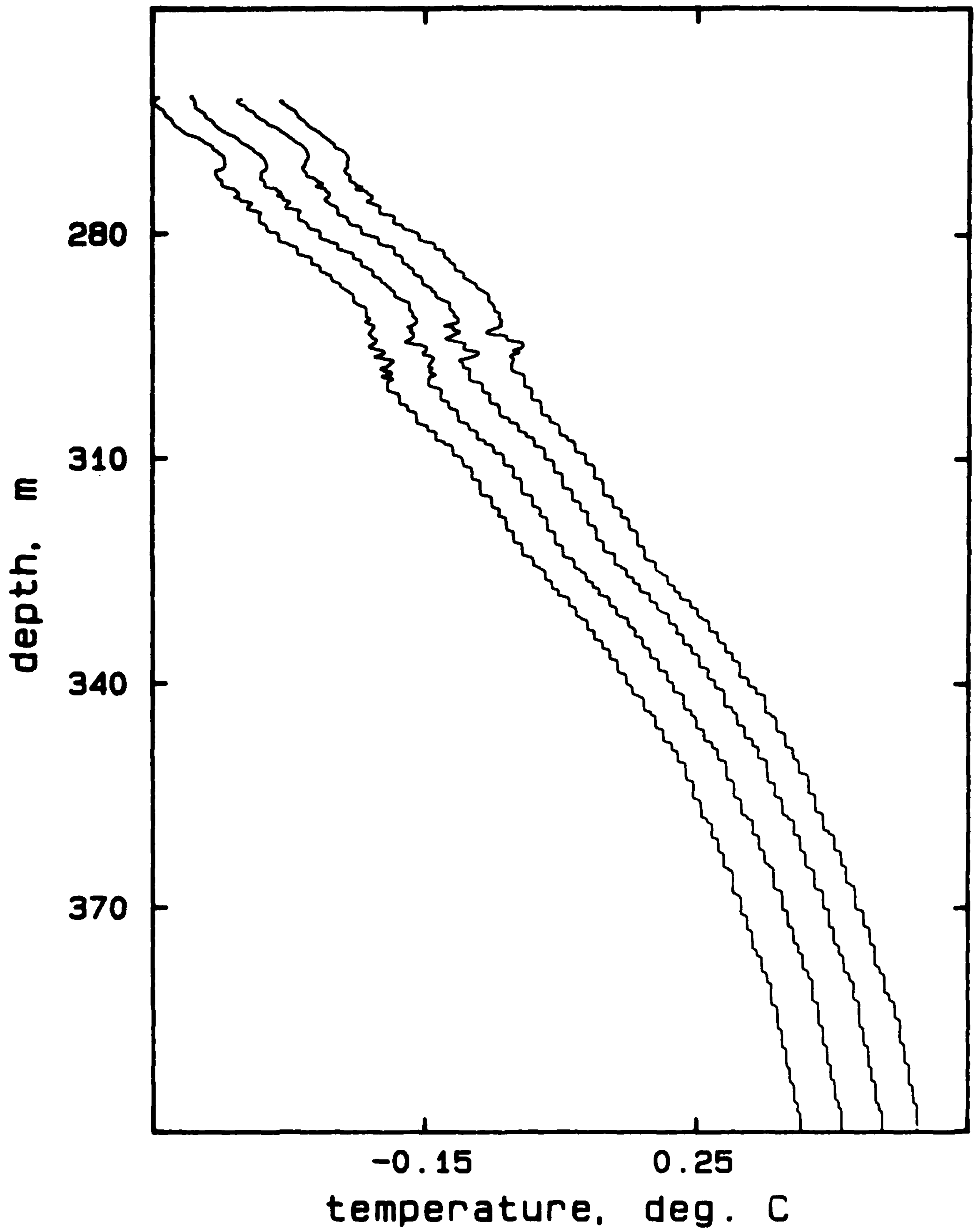
AR422C, drops 1, 8
50
100
150
200
250
300
350
depth, m
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C

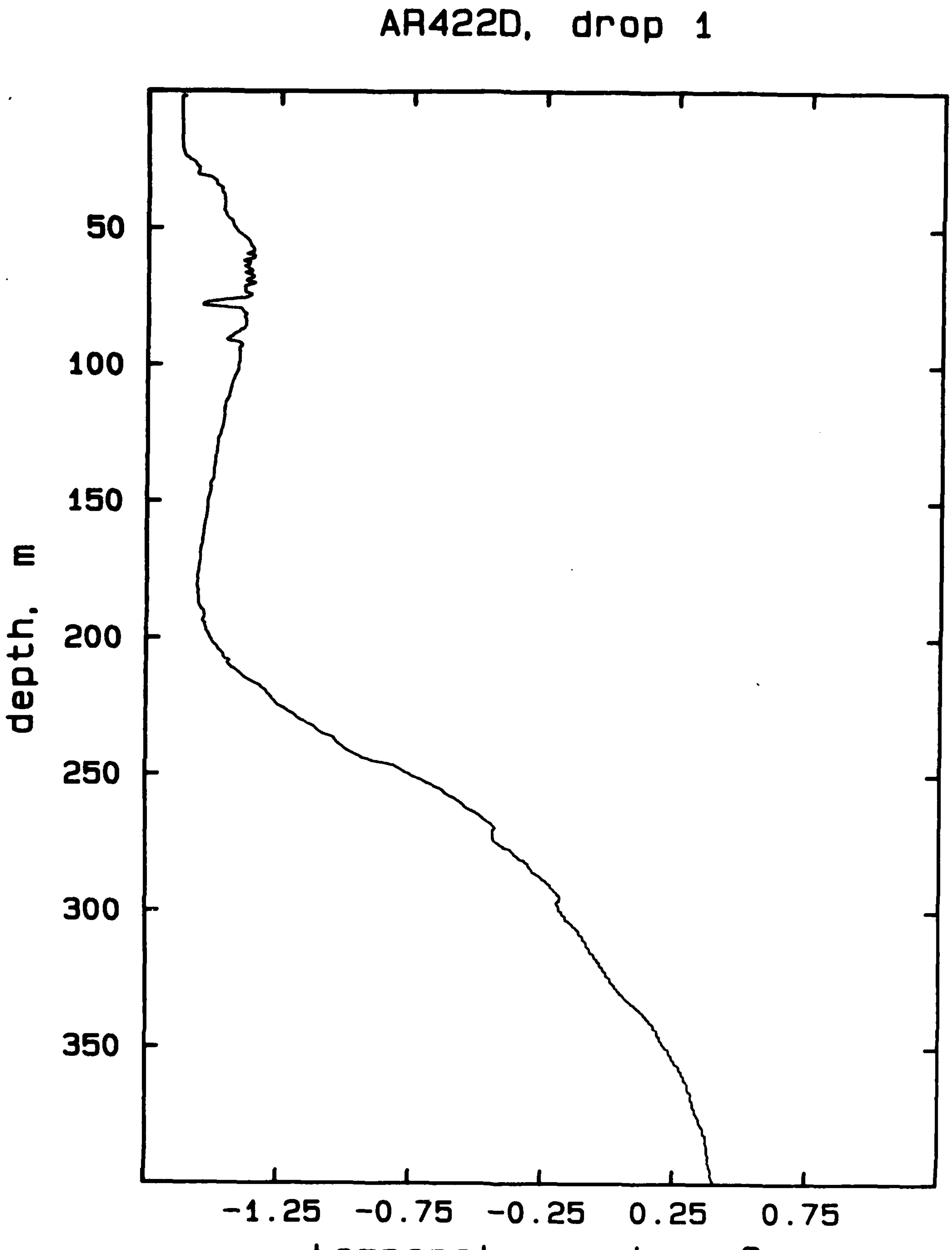

AR422C, drops 1-5
280
310
340
370
depth, m
-0.15
0.25
temperature, deg. C

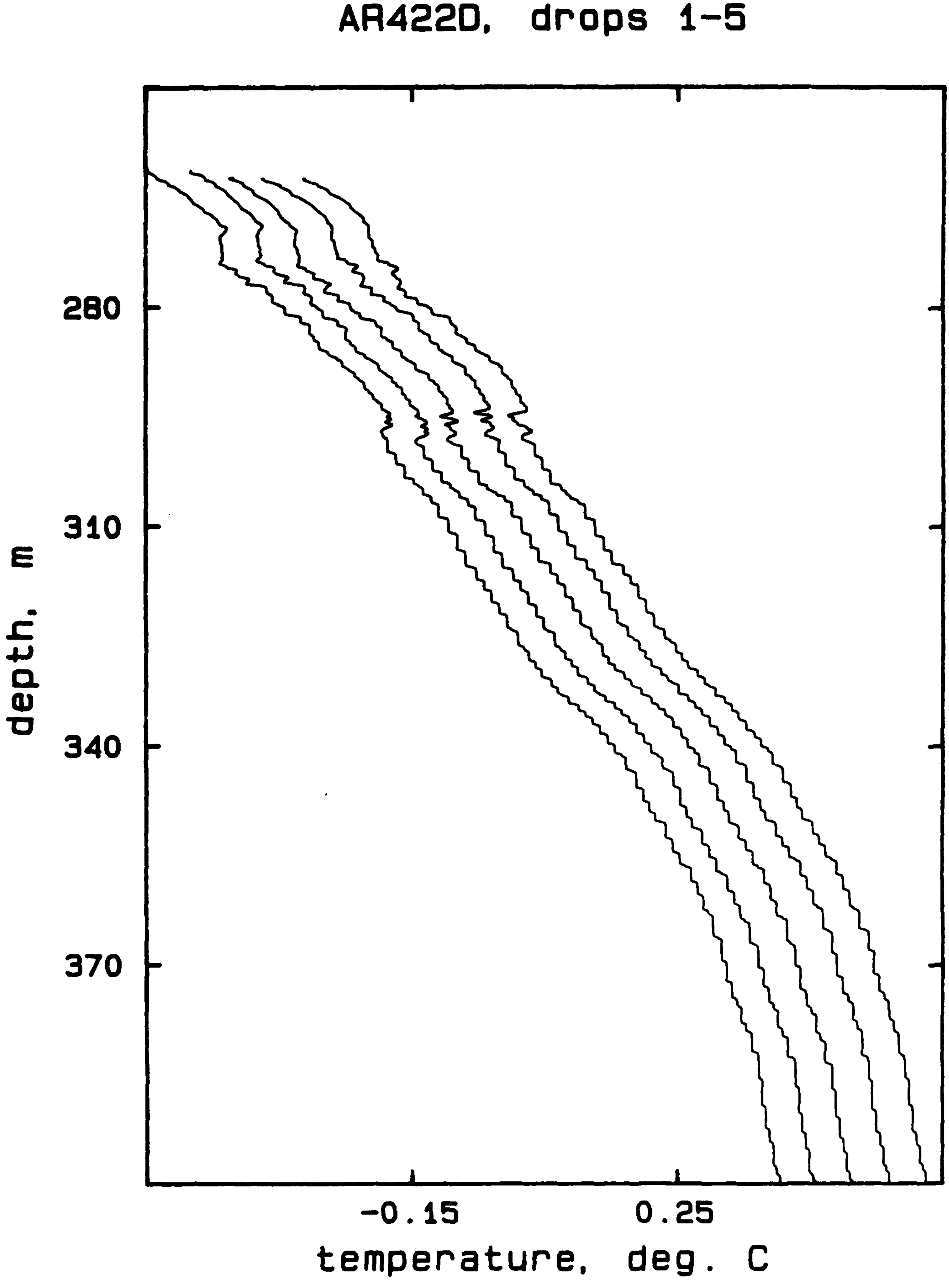

AR422C, drops 6-10
280
310
340
370
depth, m
-0.15
0.25
temperature, deg. C

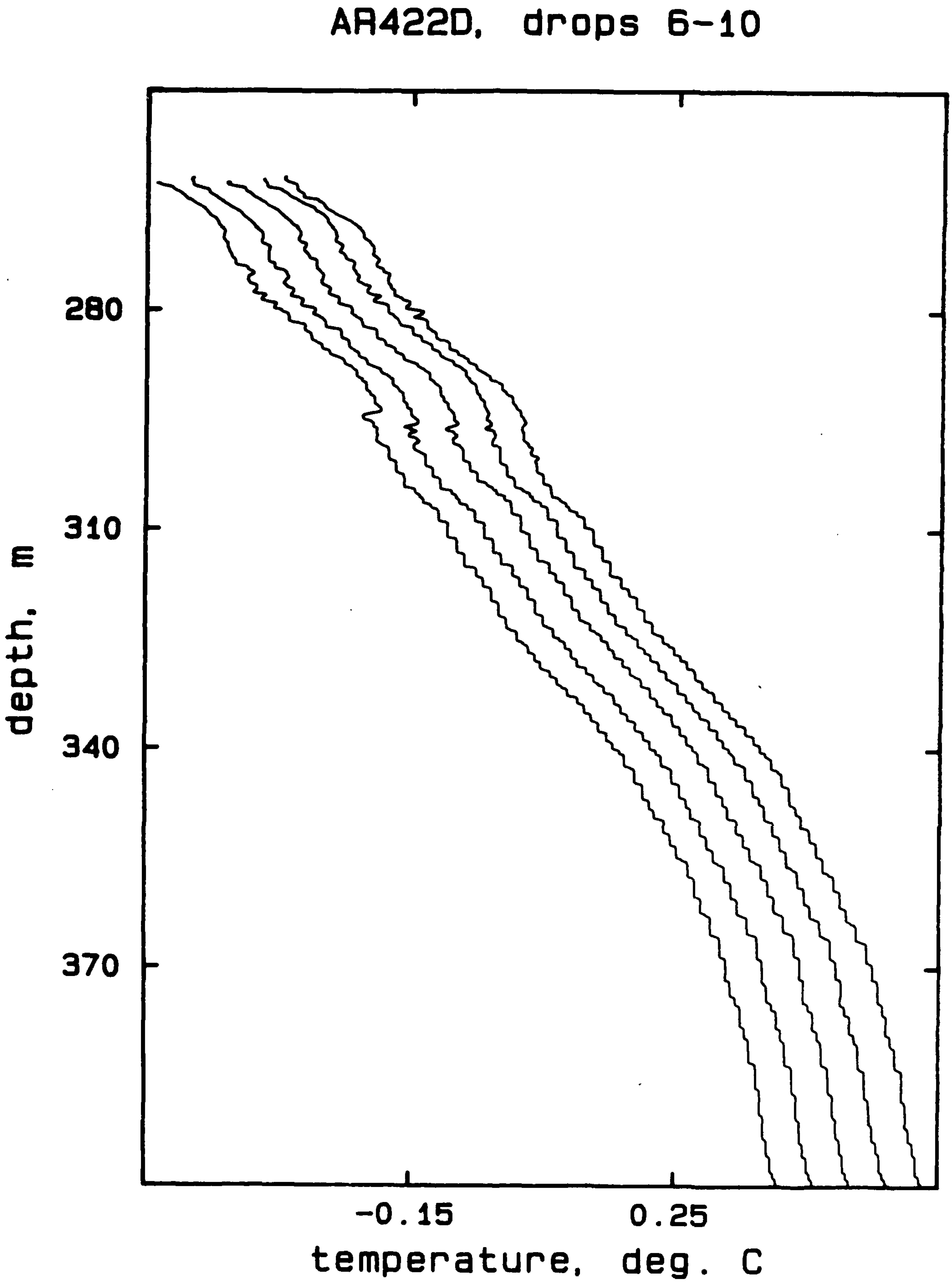

AR422C, drops 11-15
280
310
340
370
depth, m
-0.15
0.25
temperature, deg. C

AR422C, drops 16-18, 20

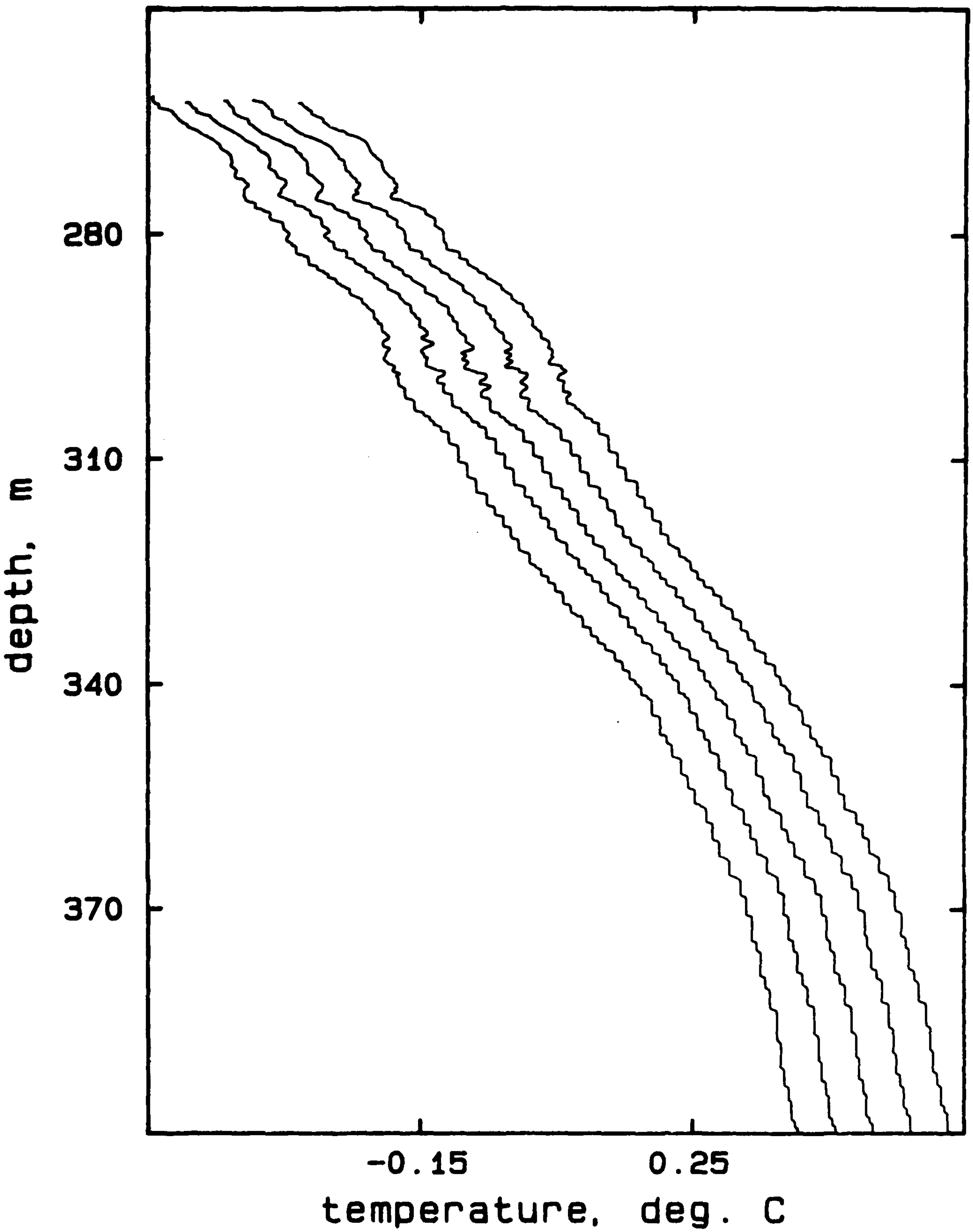


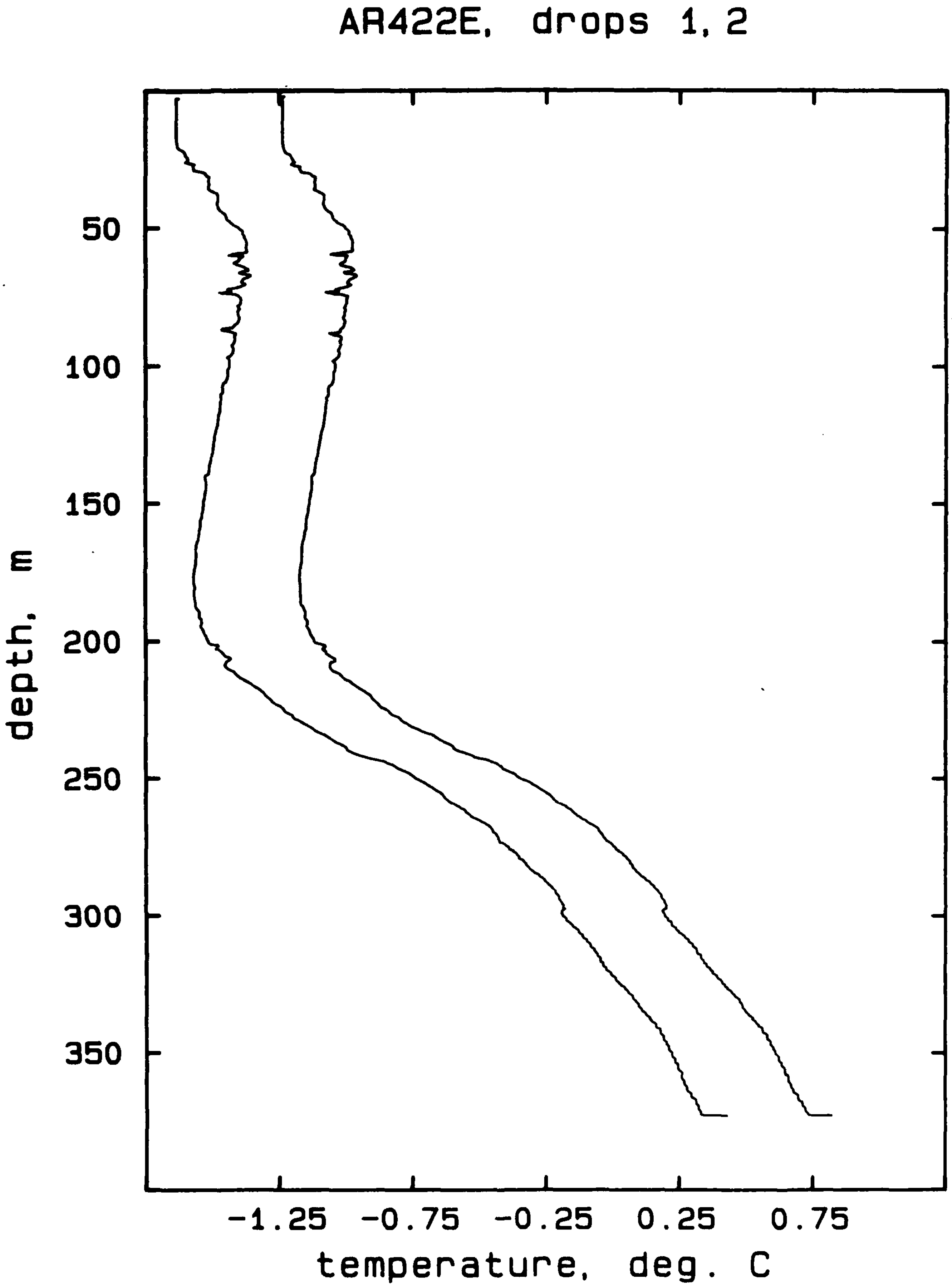

AR422D, drop 1
50
100
150
200
250
300
350
depth, m
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C

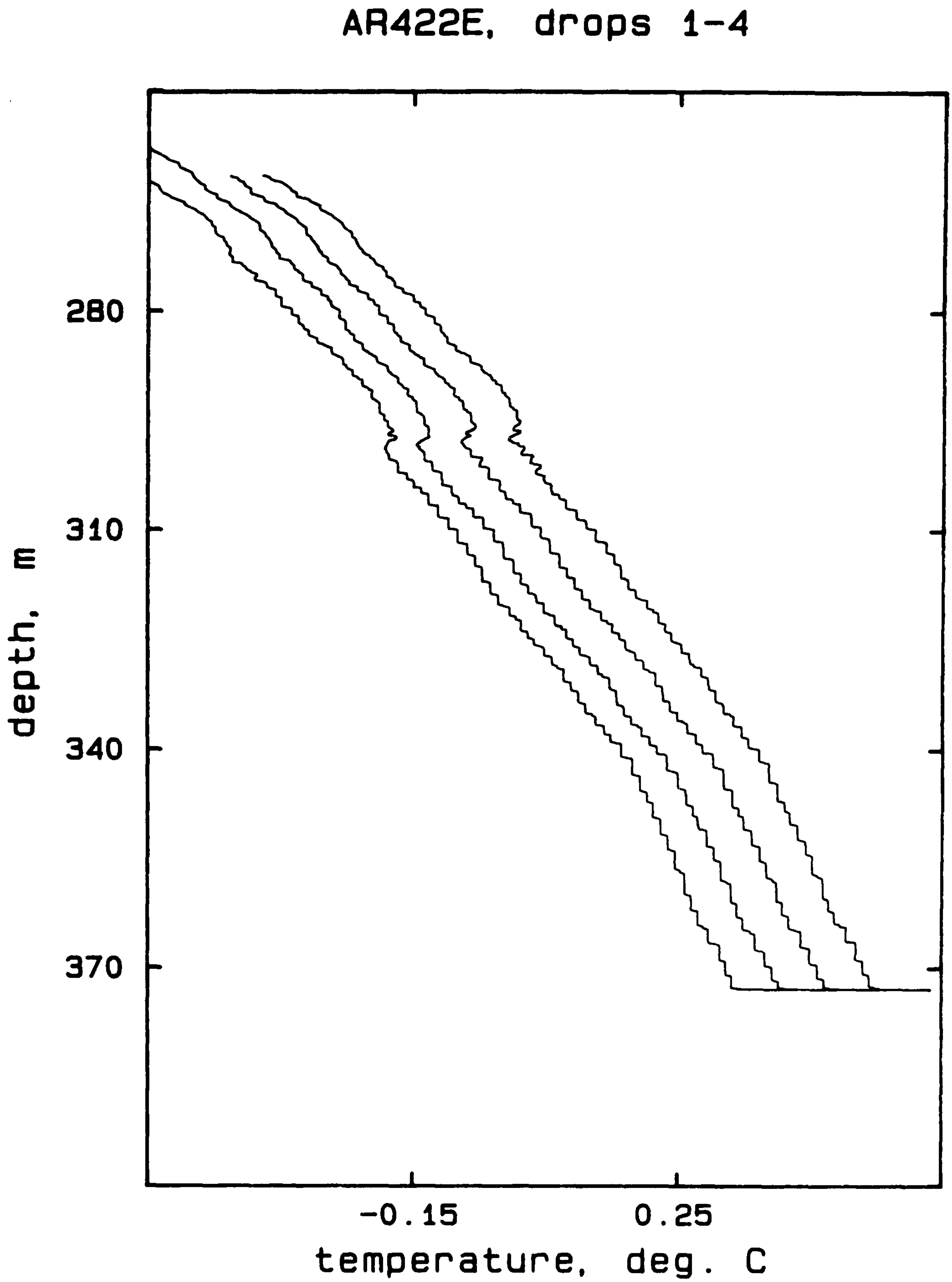

AR422D, drops 1-5
280
310
340
370
depth, m
-0.15
0.25
temperature, deg. C


AR422D, drops 6-10
280
310
340
370
depth, m
-0.15
0.25
temperature, deg. C

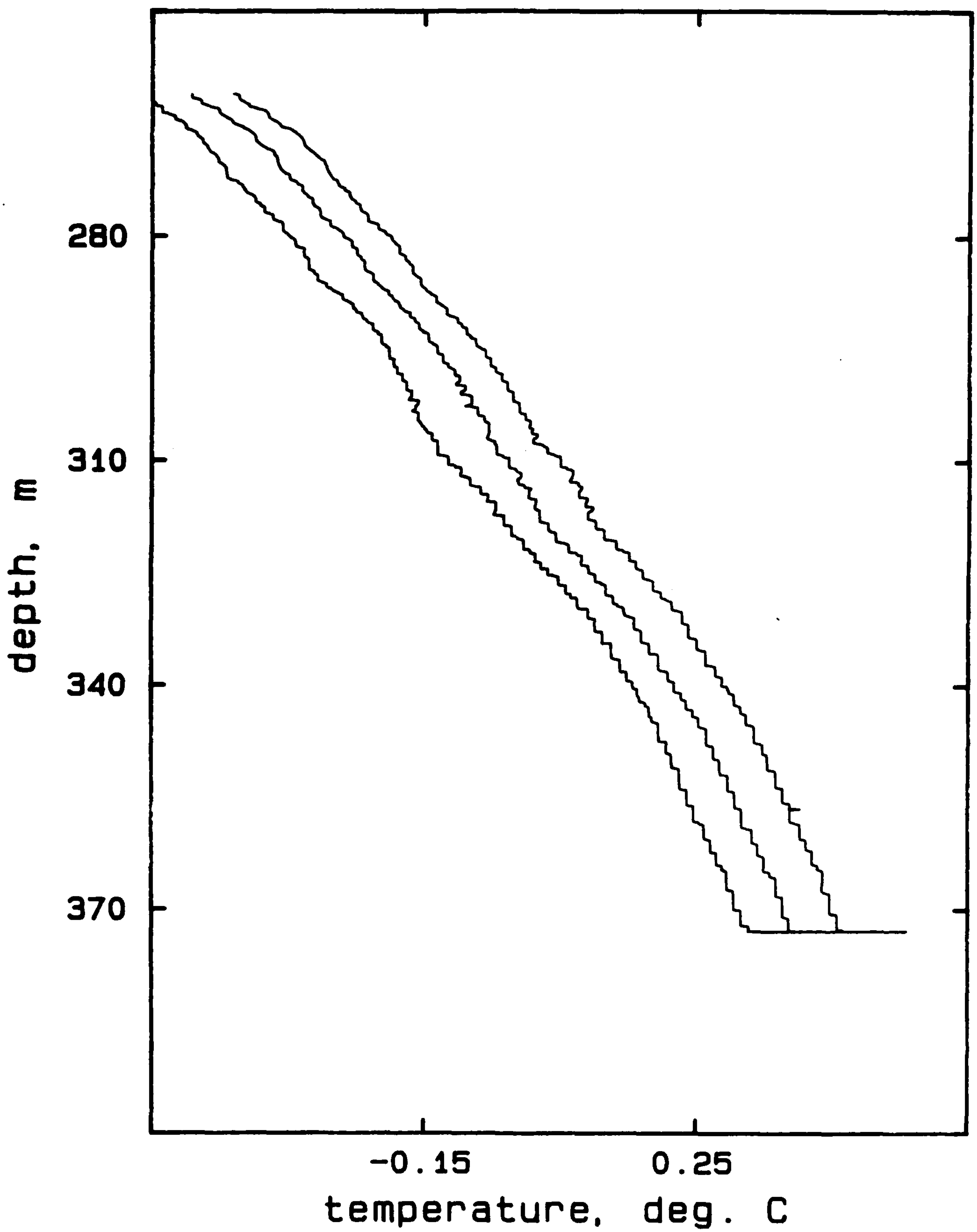
AR422D, drops 11-15



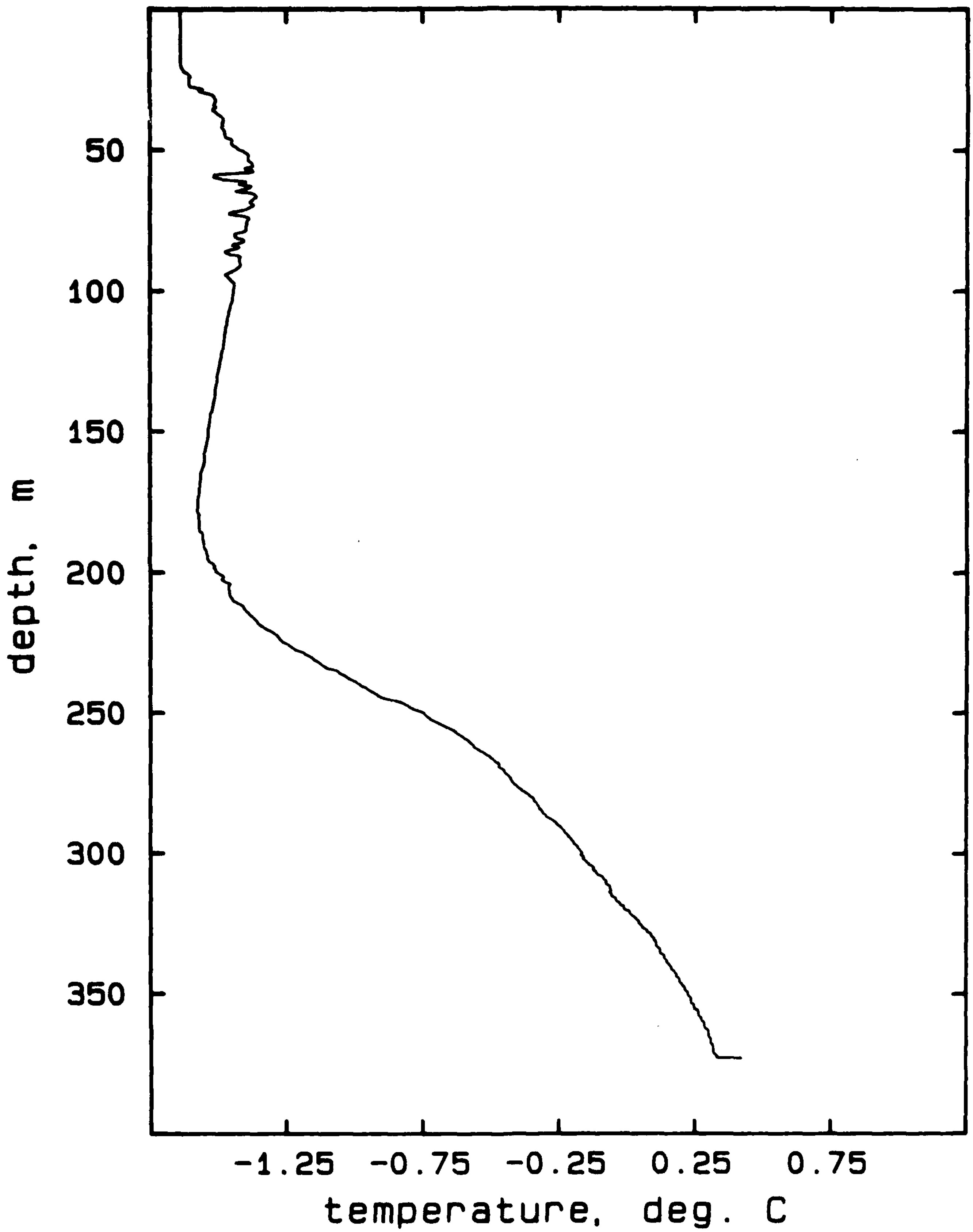

AR422E, drops 1, 2
50
100
150
200
250
300
350
depth, m
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C


AR422E, drops 1-4
280
310
340
370
depth, m
-0.15
0.25
temperature, deg. C

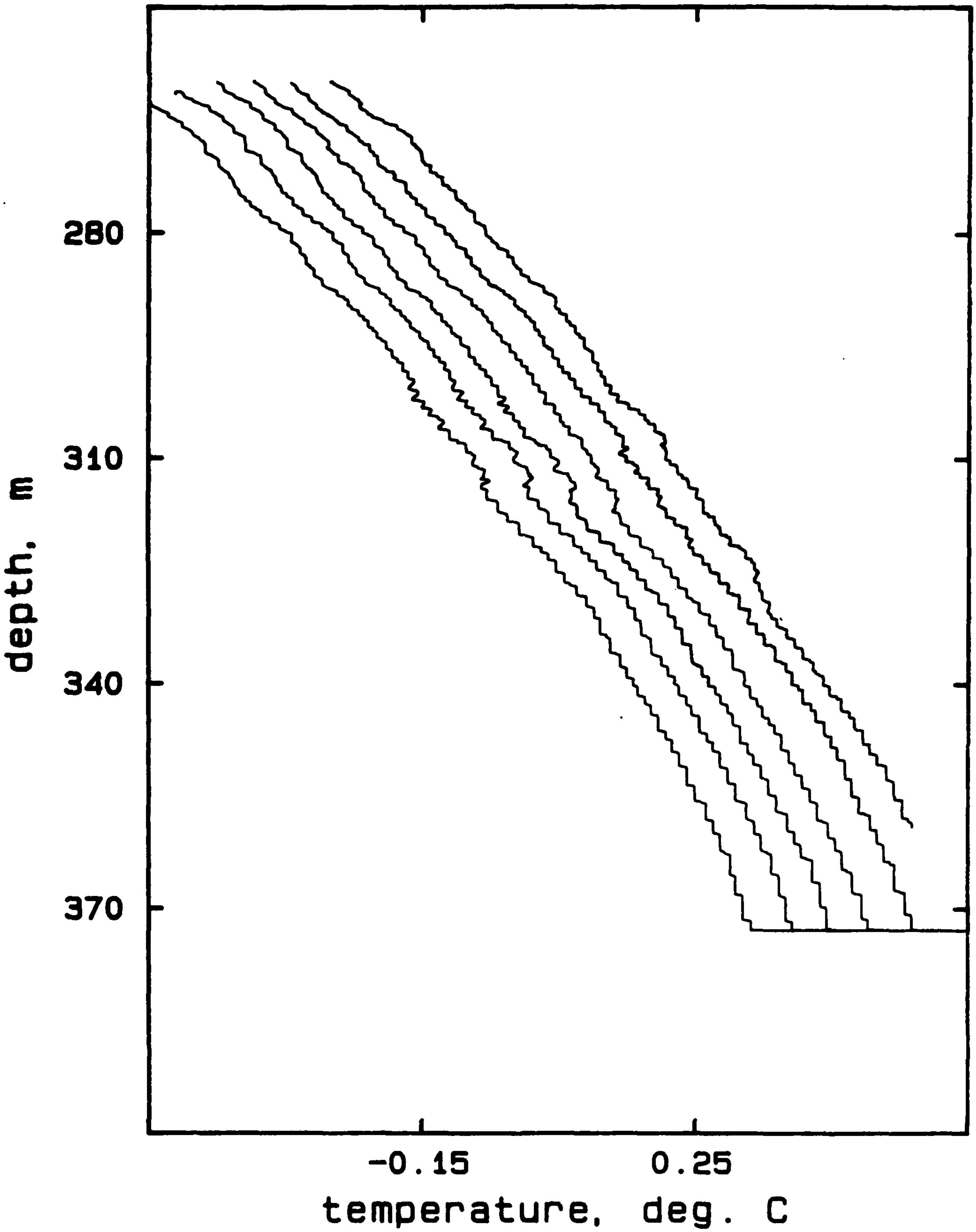
AR422E, drops 5-7



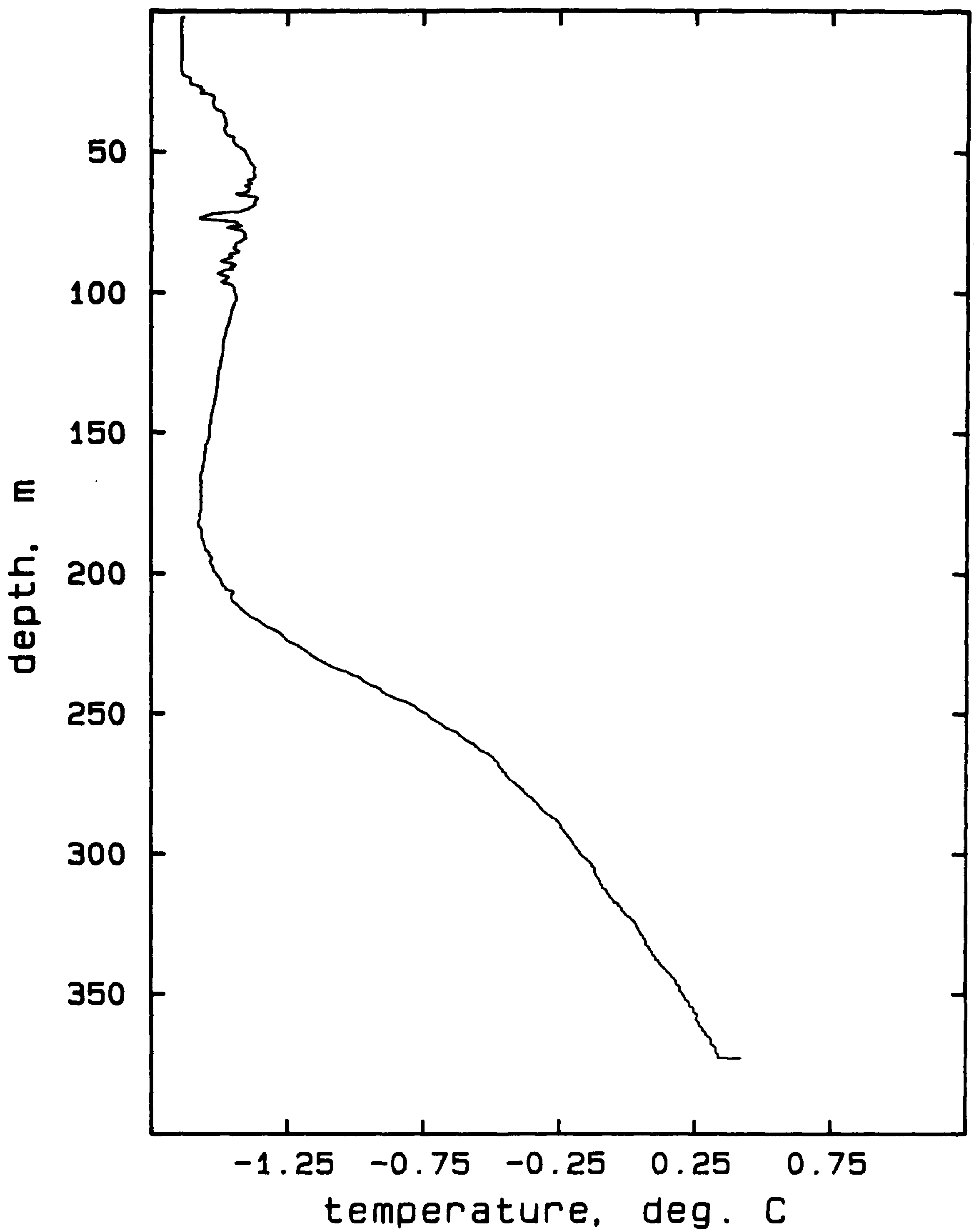
AR422F, drop 1

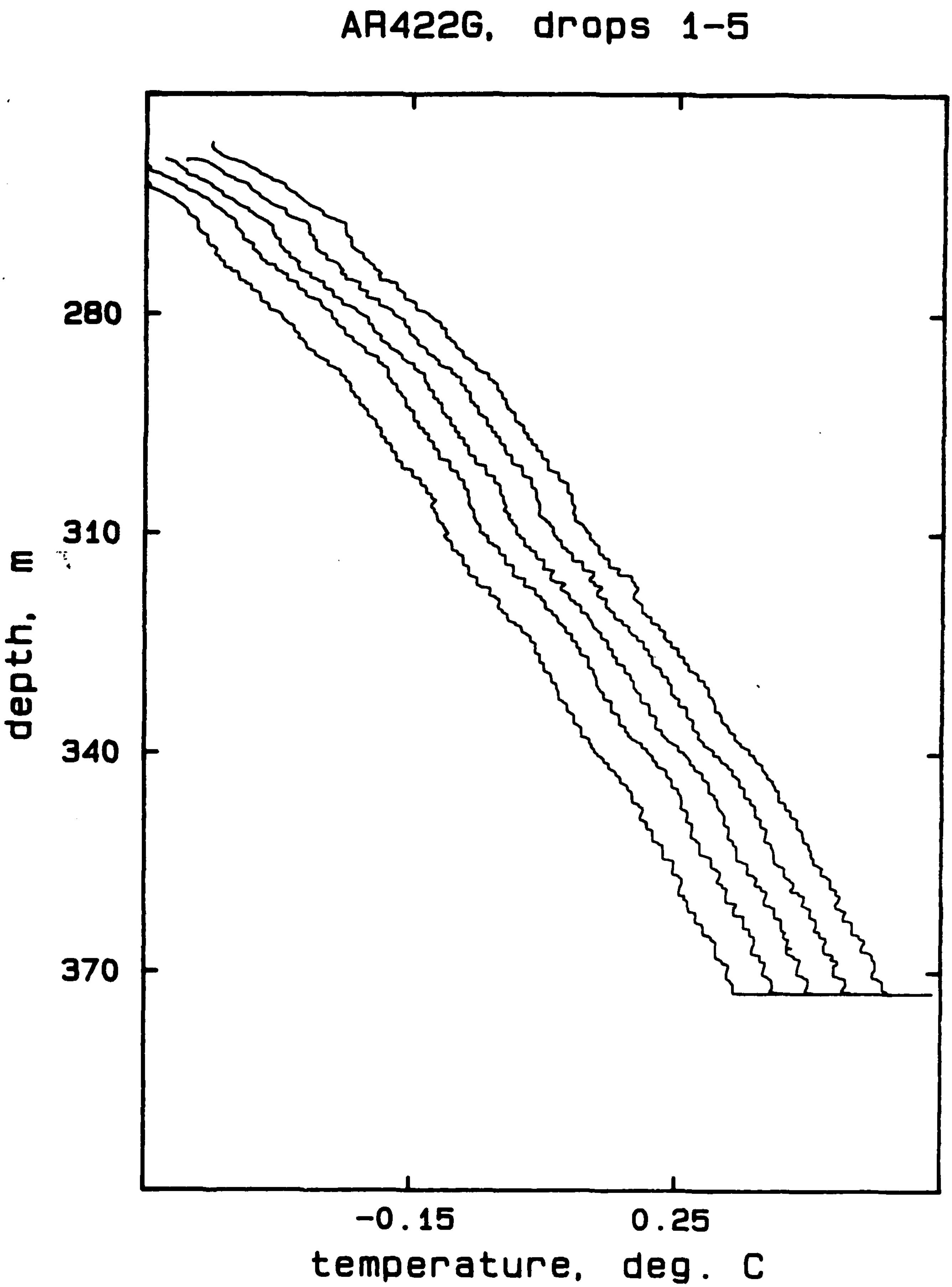


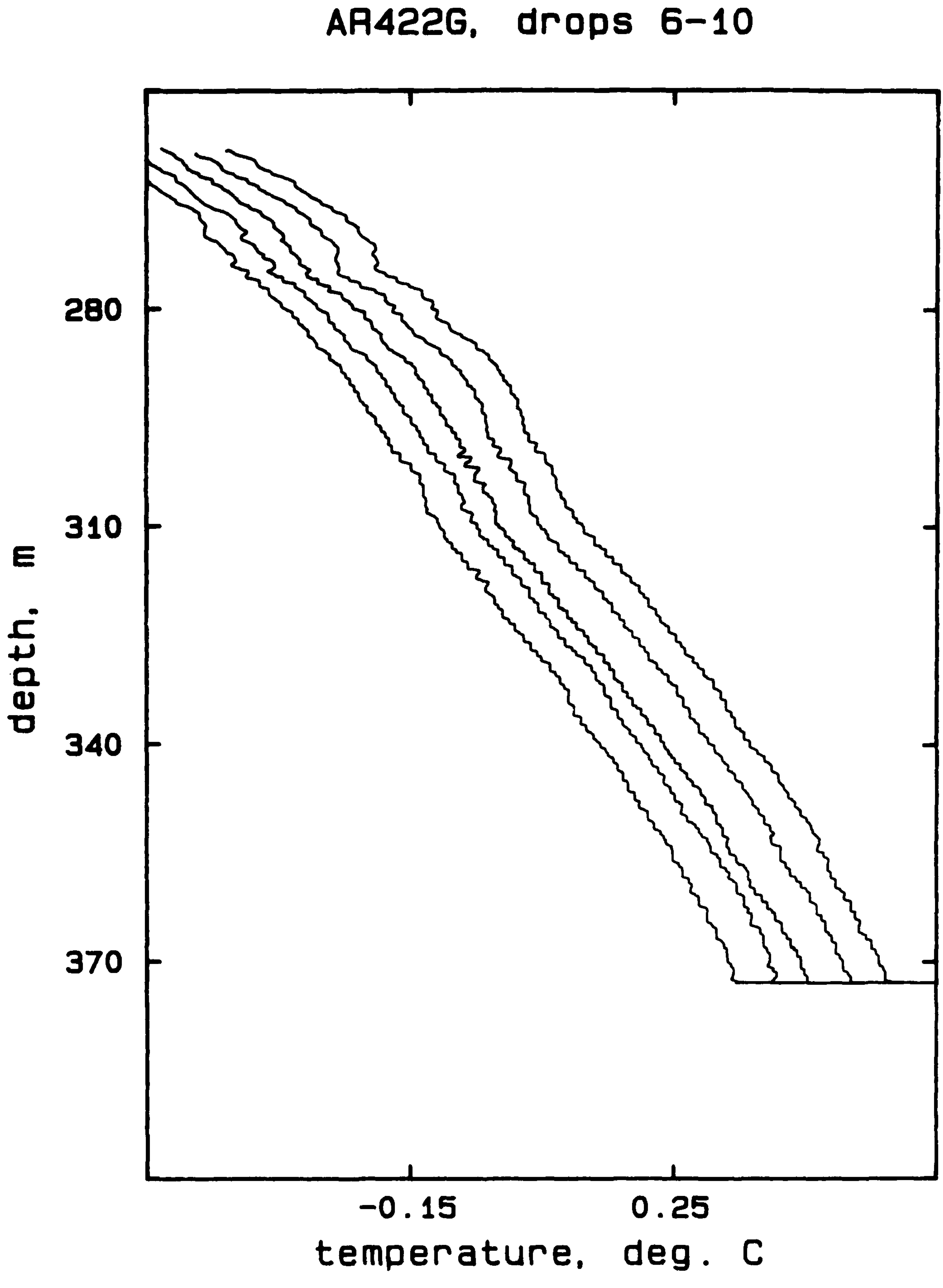
AR422F, drops 1-6

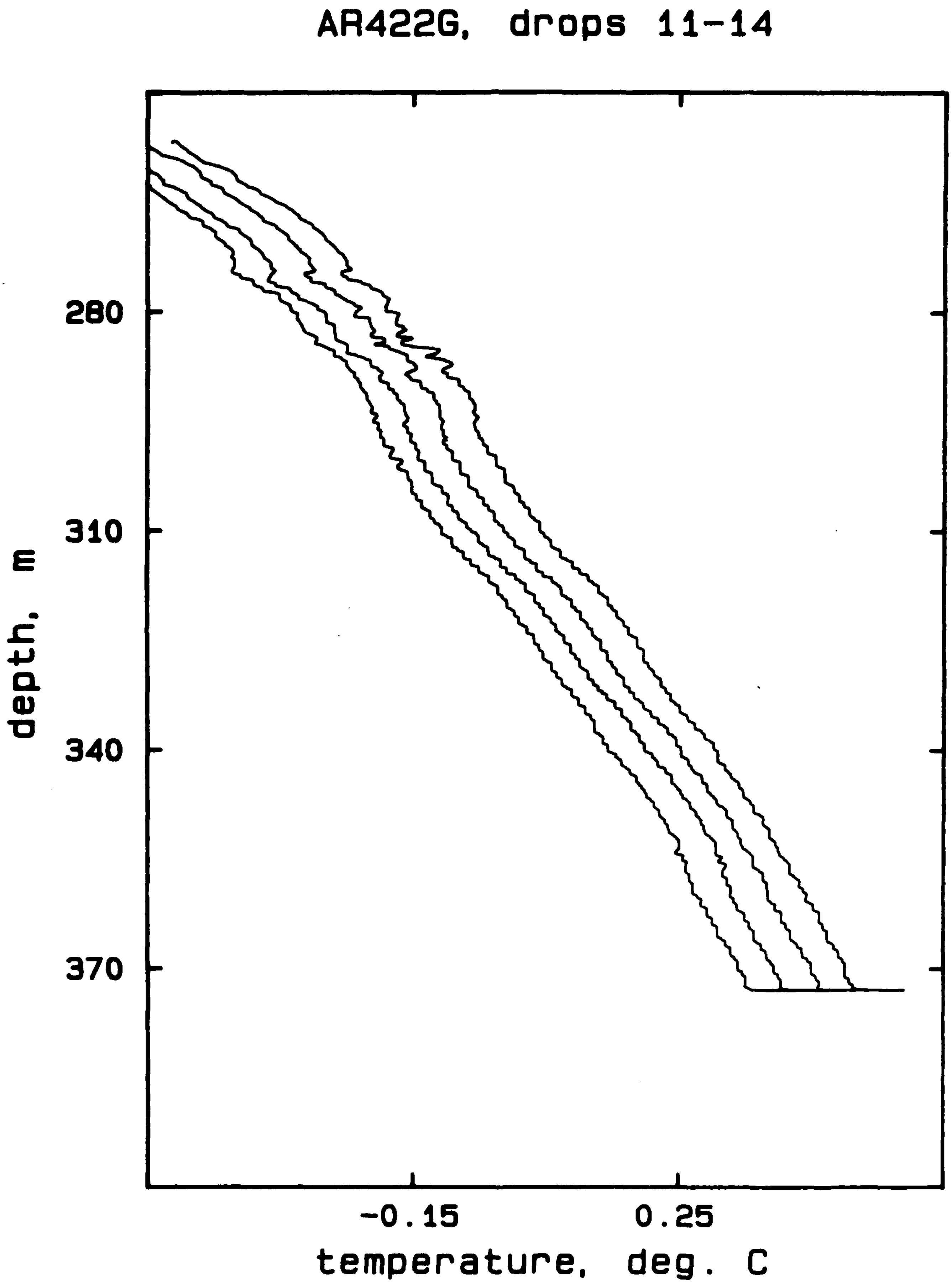


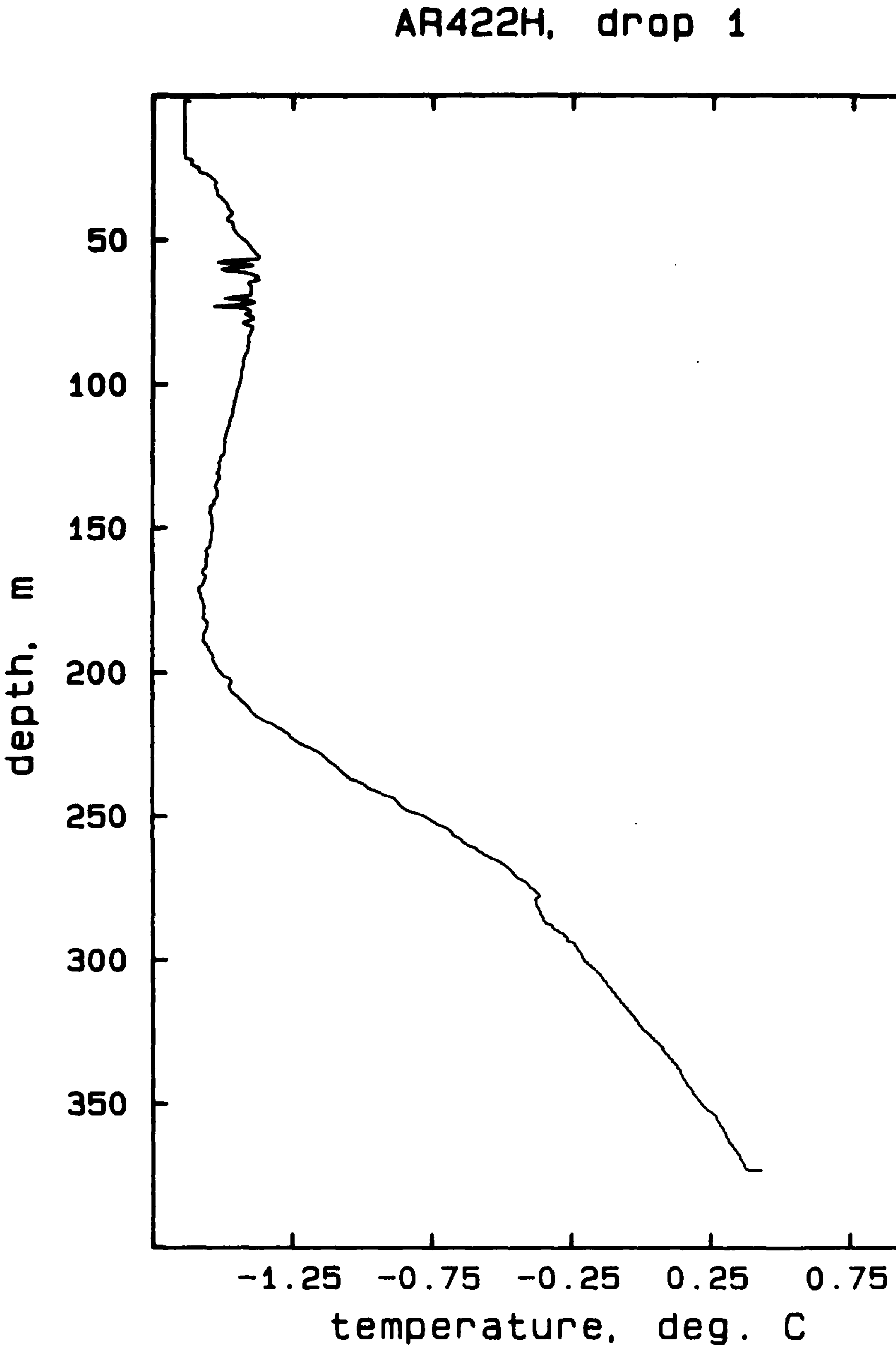
AR422G, drop 1



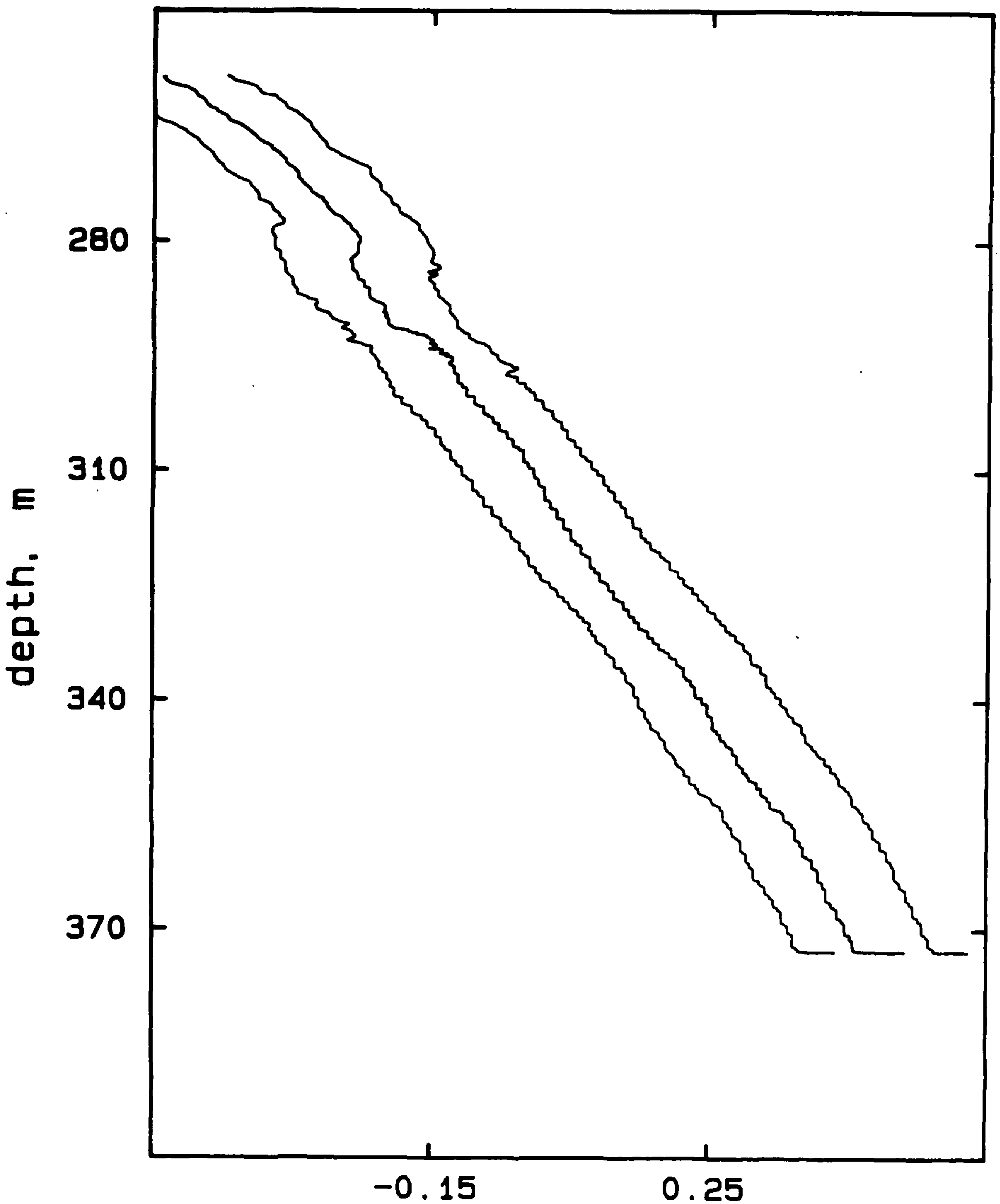

AR422G, drops 1-5
280
310
340
370
depth, m
-0.15
0.25
temperature, deg. C

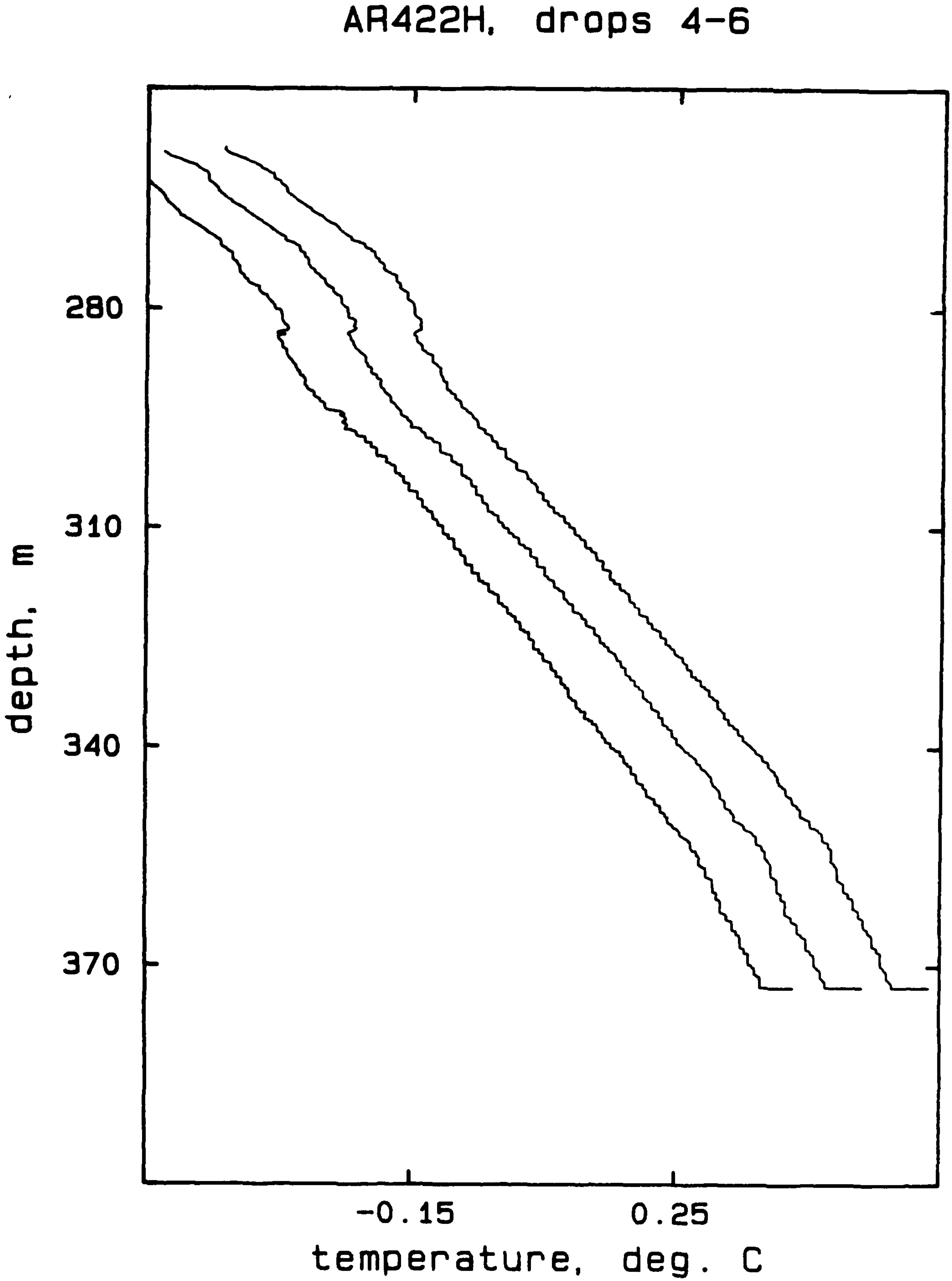

AR422G, drops 6-10
280
310
340
370
depth, m
-0.15
0.25
temperature, deg. C

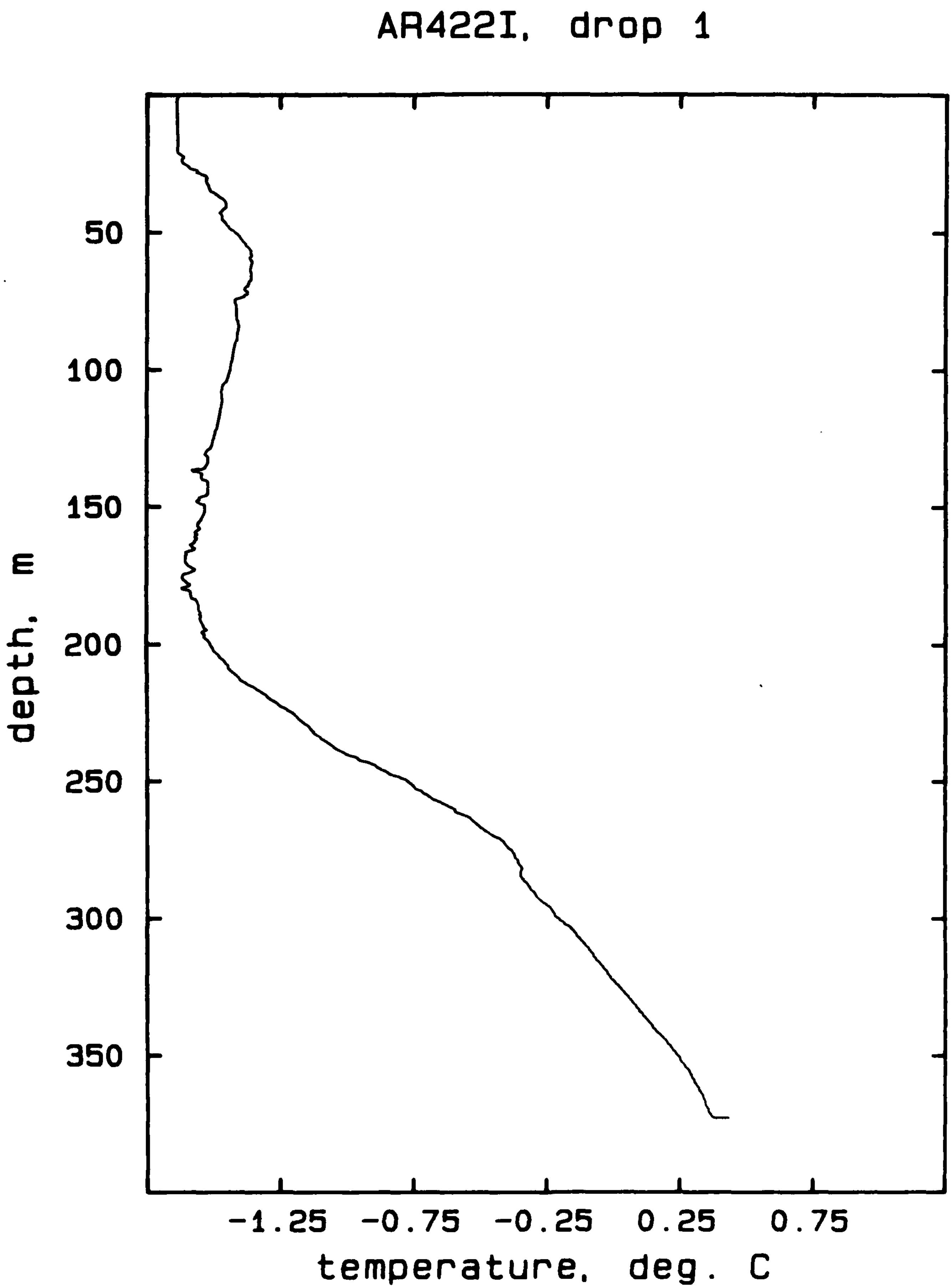

AR422G, drops 11-14
280
310
340
370
depth, m
-0.15
0.25
temperature, deg. C

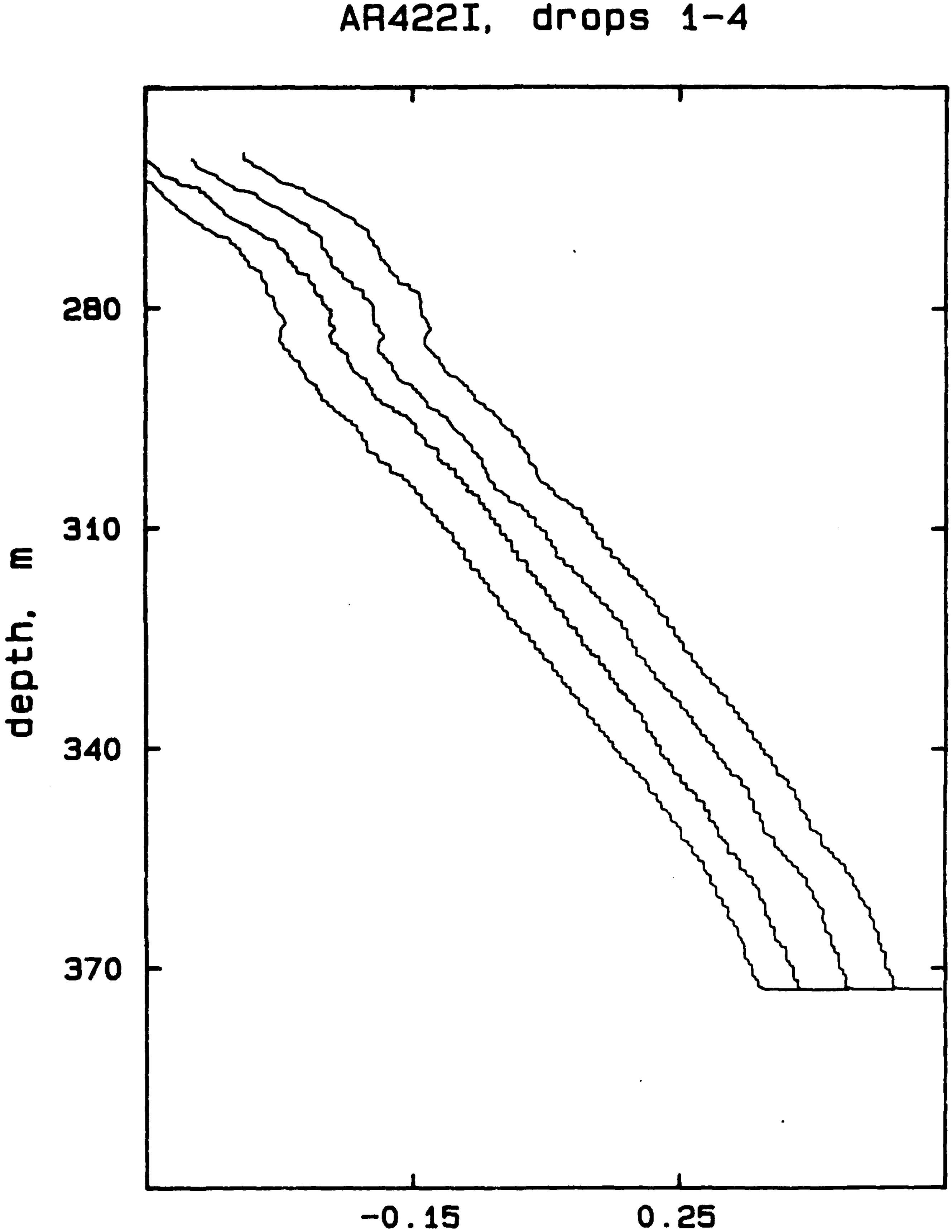

AR422H, drop 1
50
100
150
200
250
300
350
depth, m
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C

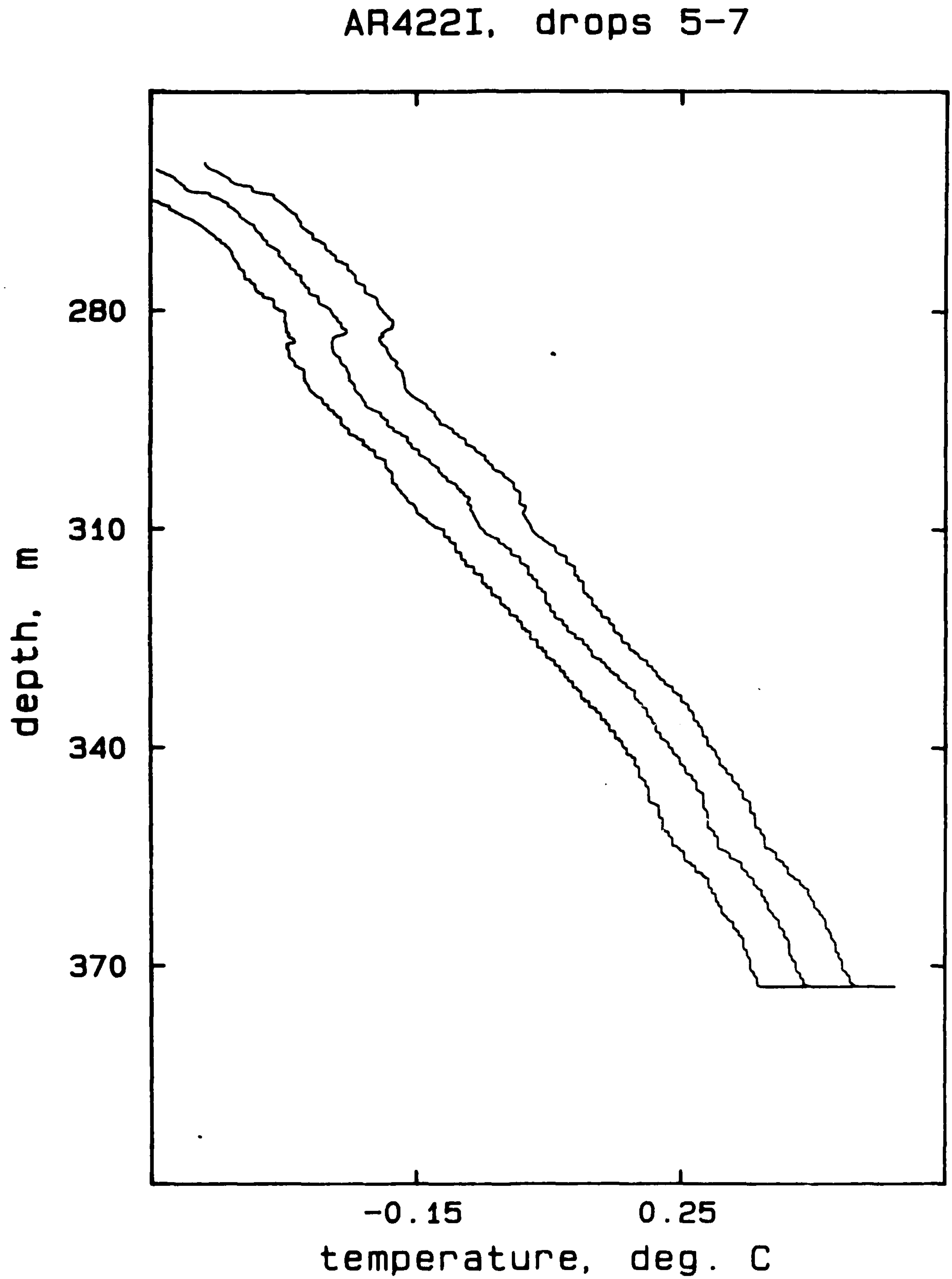
AR422H, drops 1-3

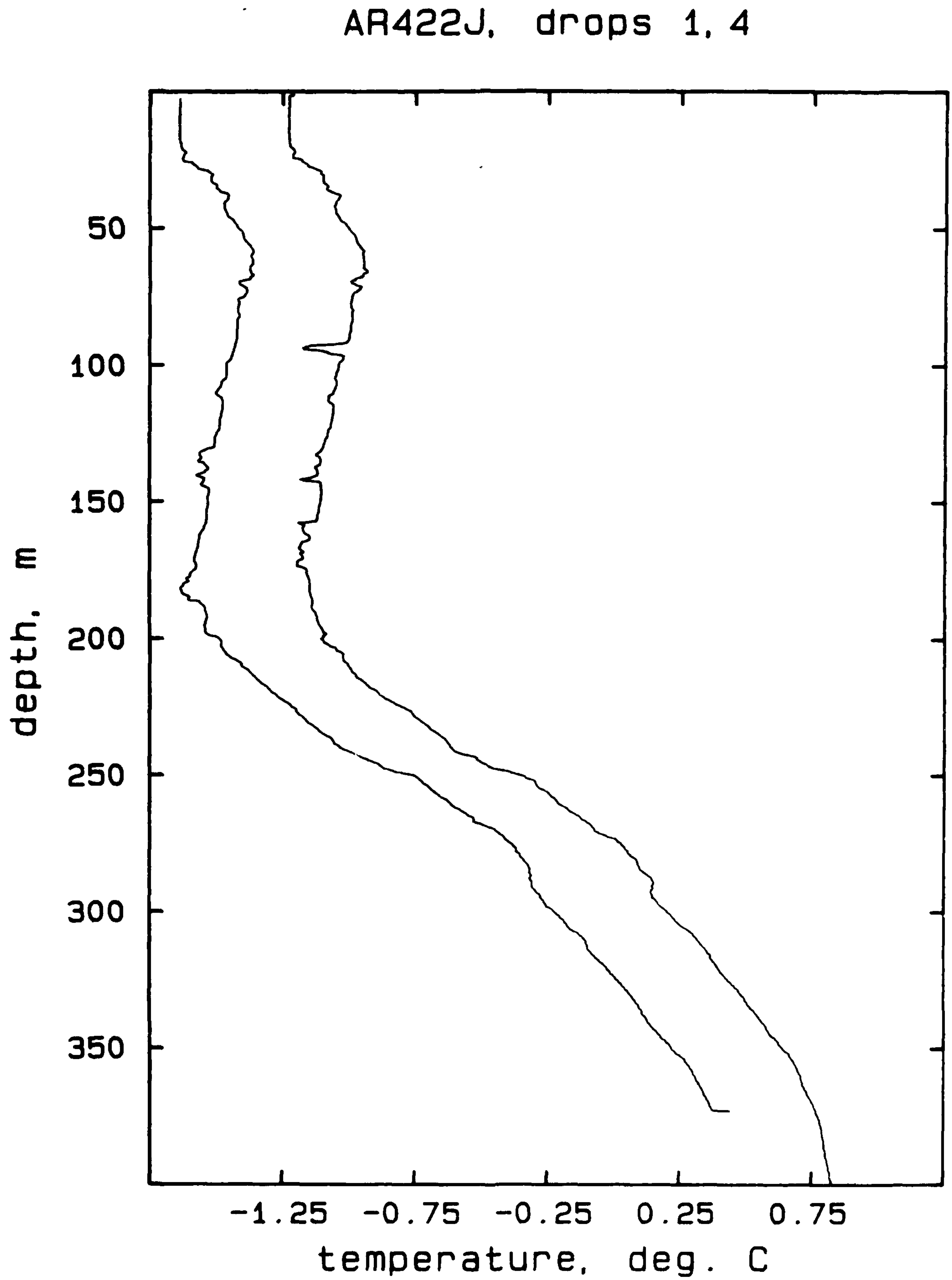


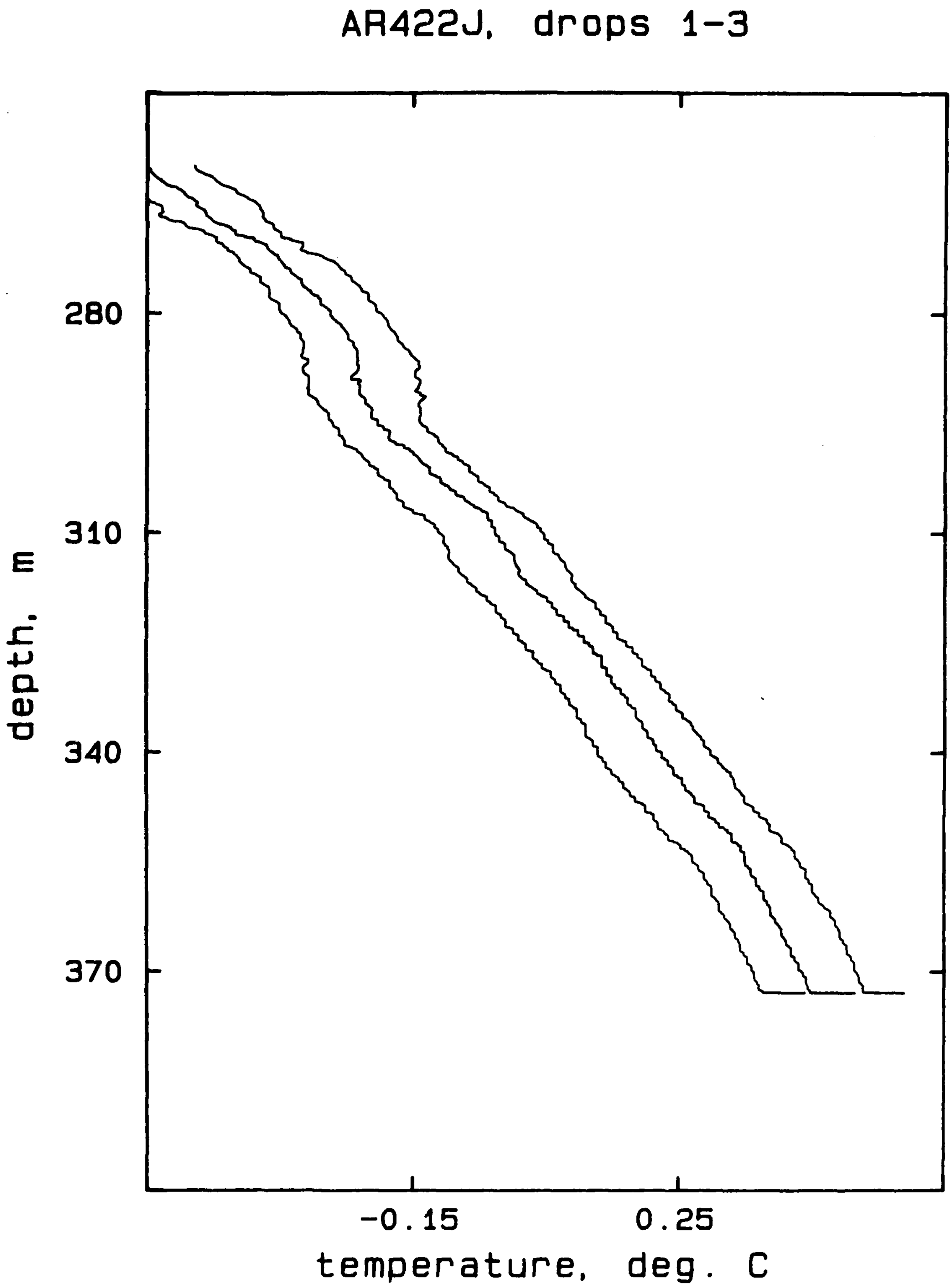

AR422H, drops 4-6
280
310
340
370
depth, m
-0.15
0.25
temperature, deg. C

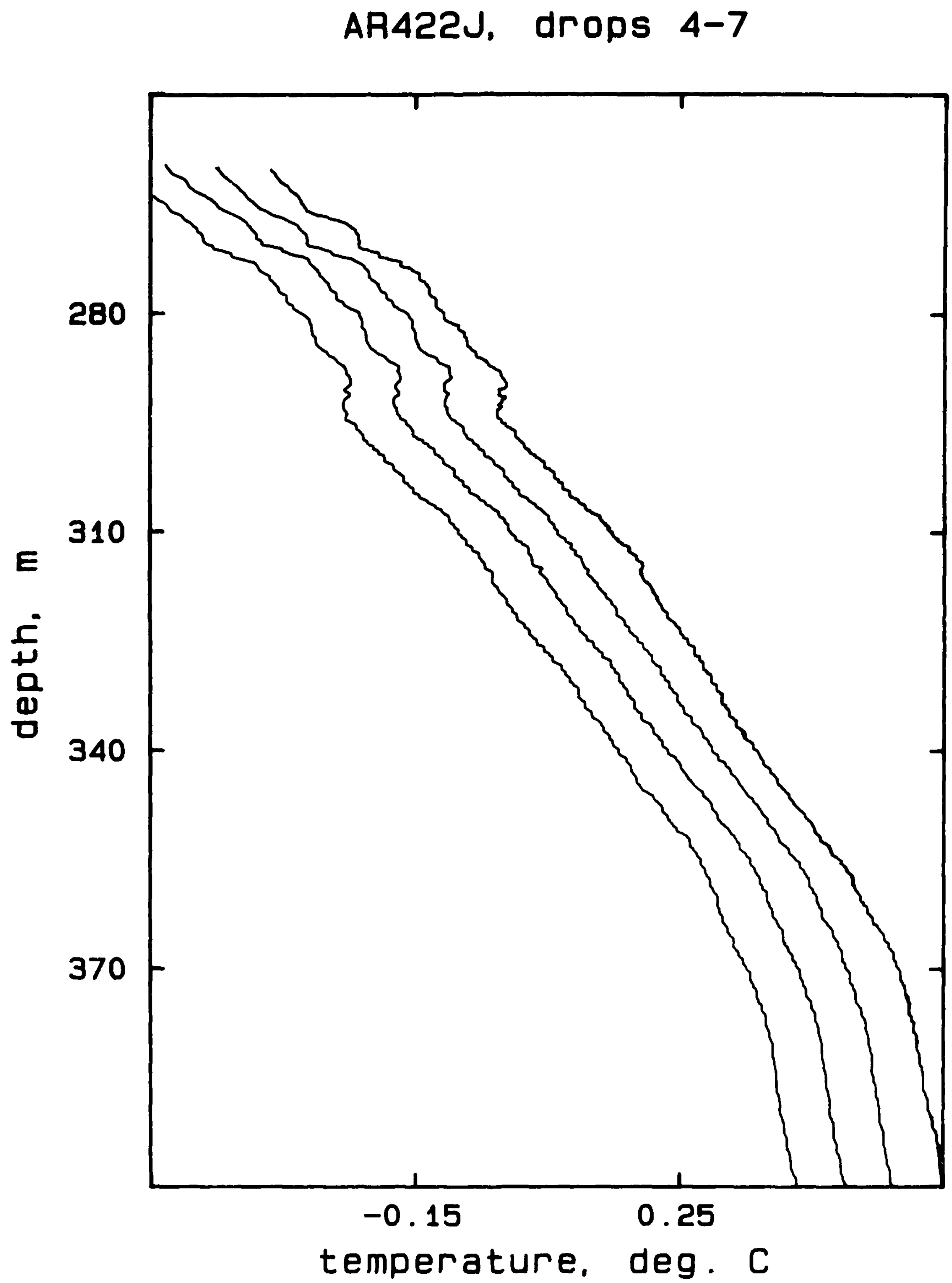

AR422I, drop 1
50
100
150
200
250
300
350
depth, m
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C

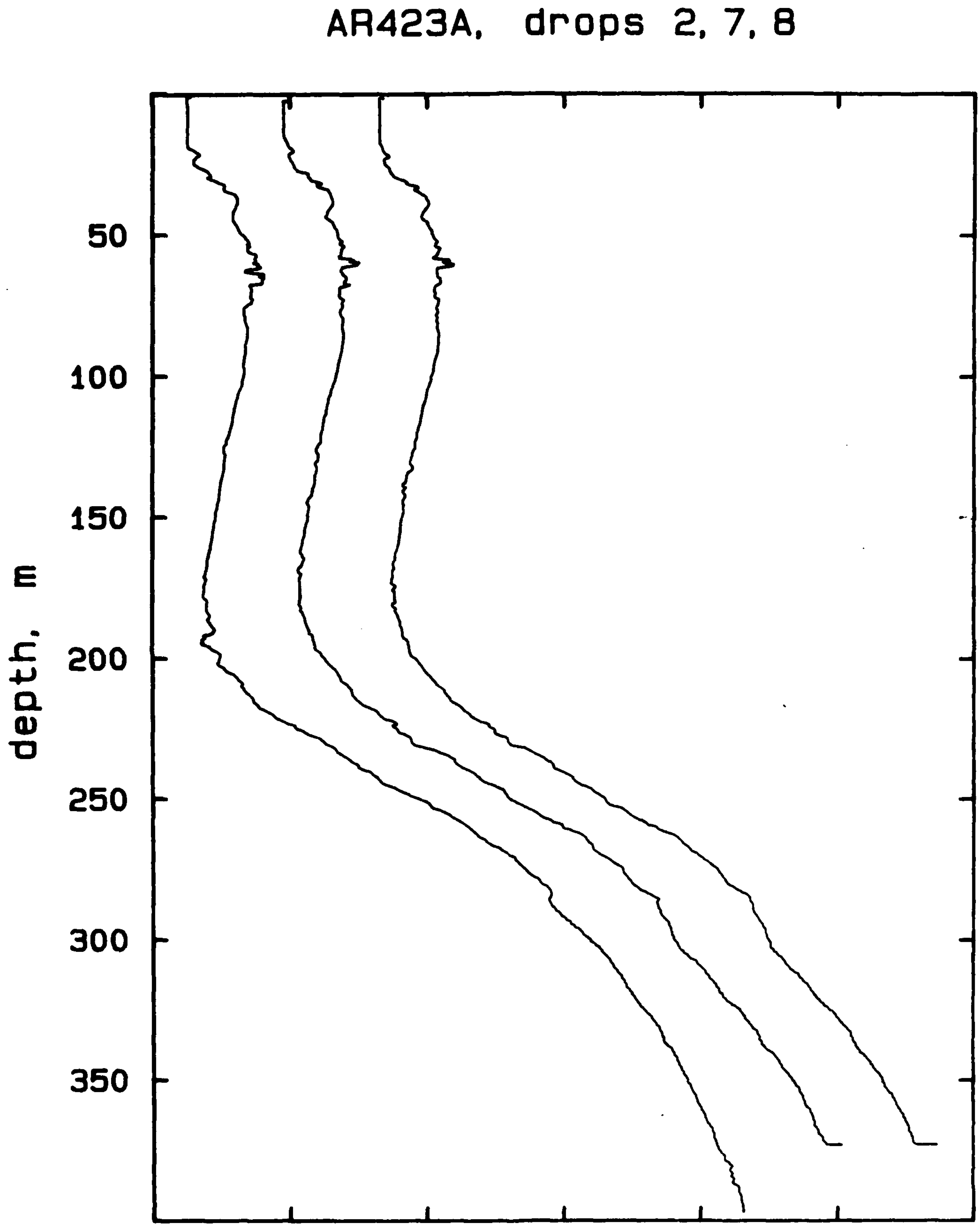

AR422I, drops 1-4
280
310
340
370
depth, m
-0.15
0.25
temperature, deg. C


AR422I, drops 5-7
280
310
340
370
depth, m
-0.15
0.25
temperature, deg. C

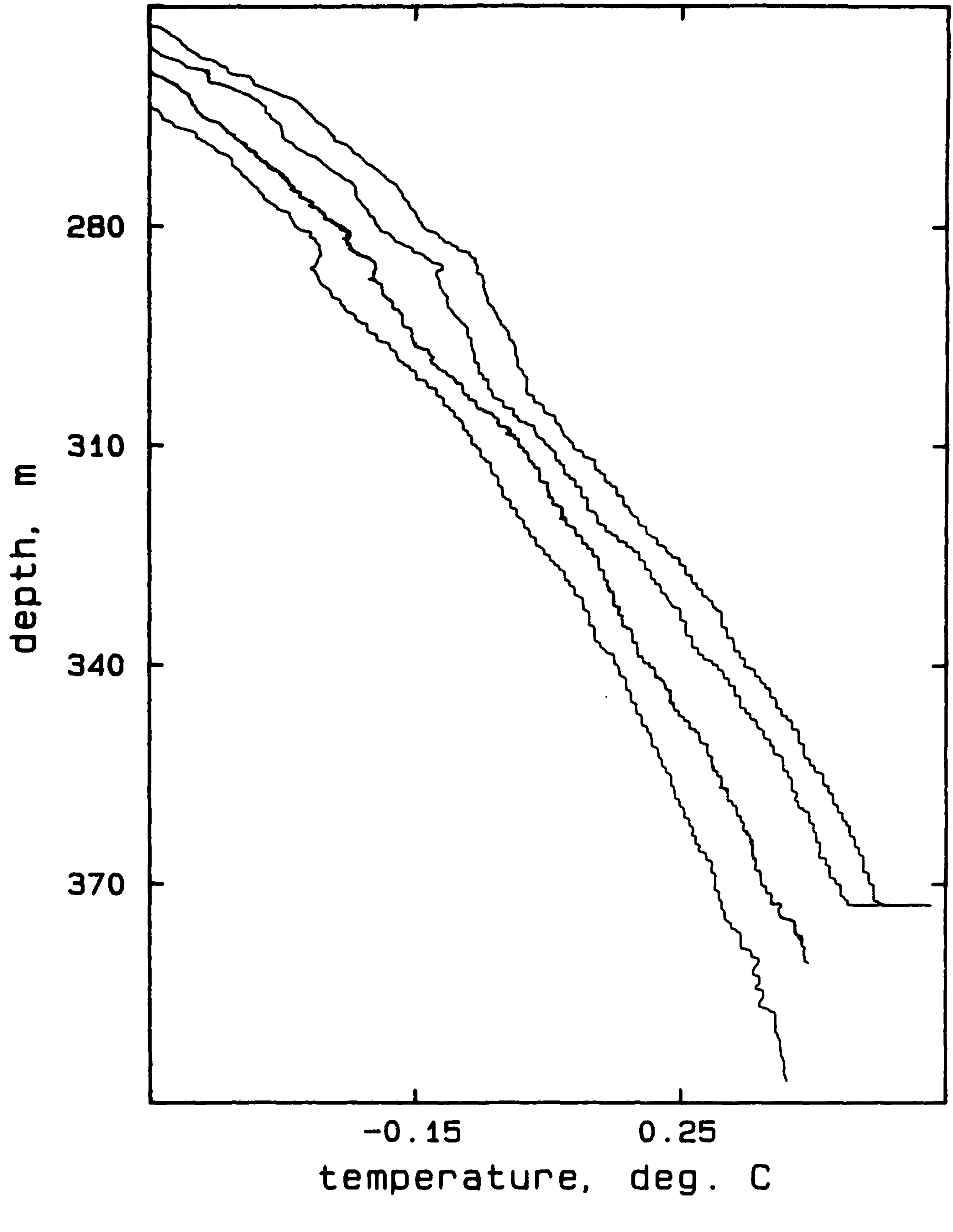

AR422J, drops 1, 4
50
100
150
200
250
300
350
depth, m
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C

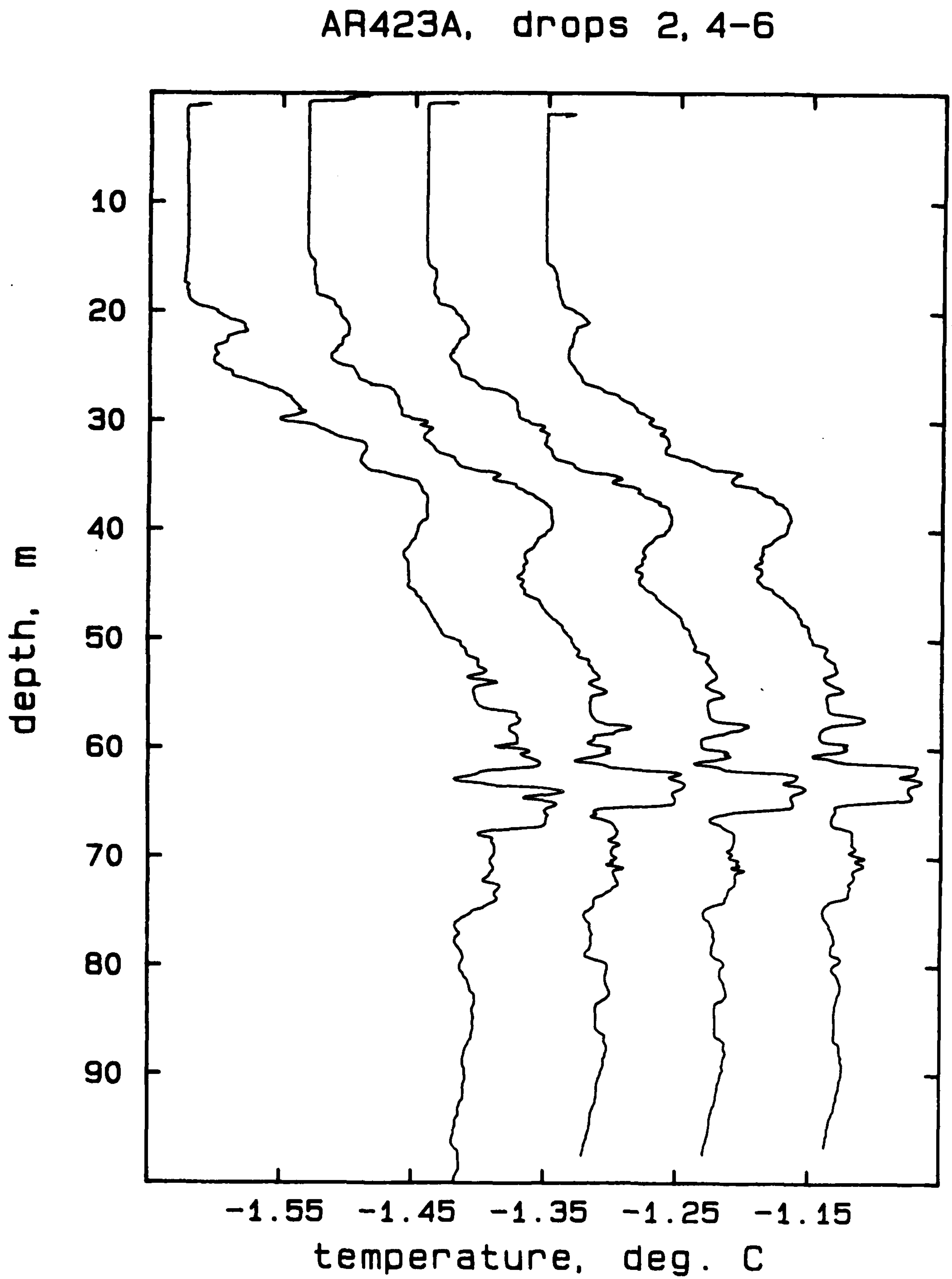

AR422J, drops 1-3
280
310
340
370
depth, m
-0.15
0.25
temperature, deg. C

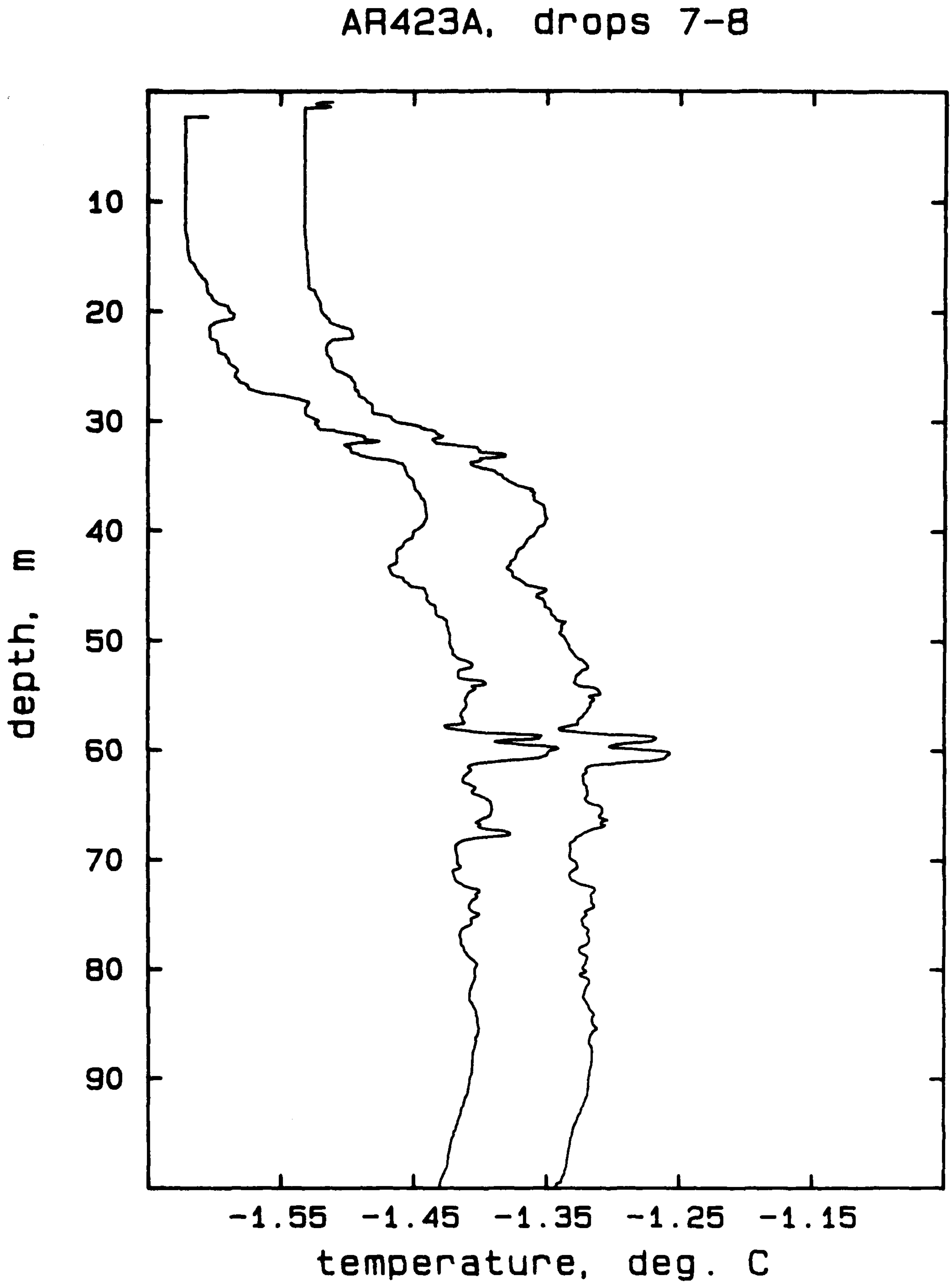

AR422J, drops 4-7
280
310
340
370
depth, m
-0.15
0.25
temperature, deg. C

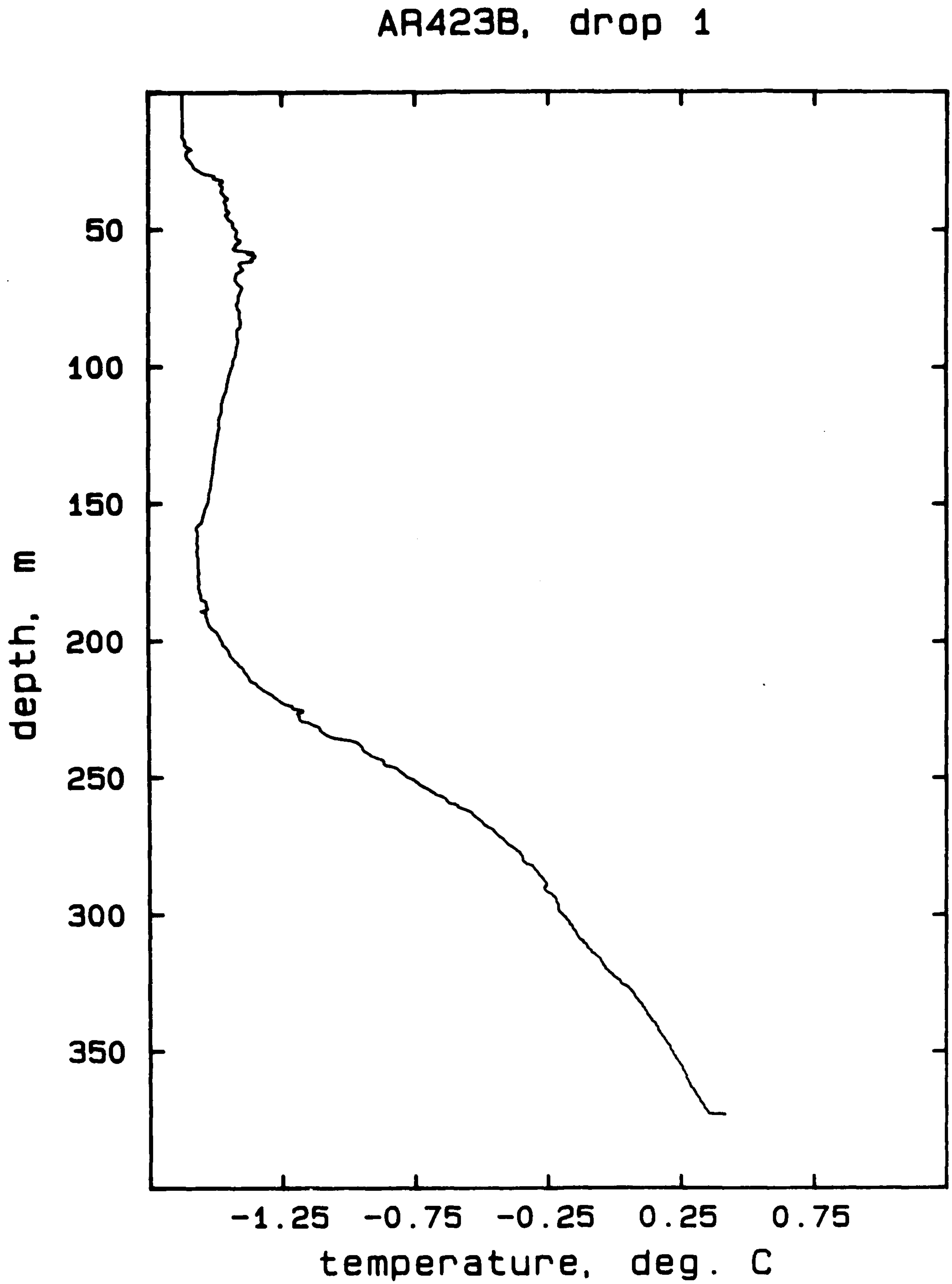

AR423A, drops 2, 7, 8
depth, m
50
100
150
200
250
300
350
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C

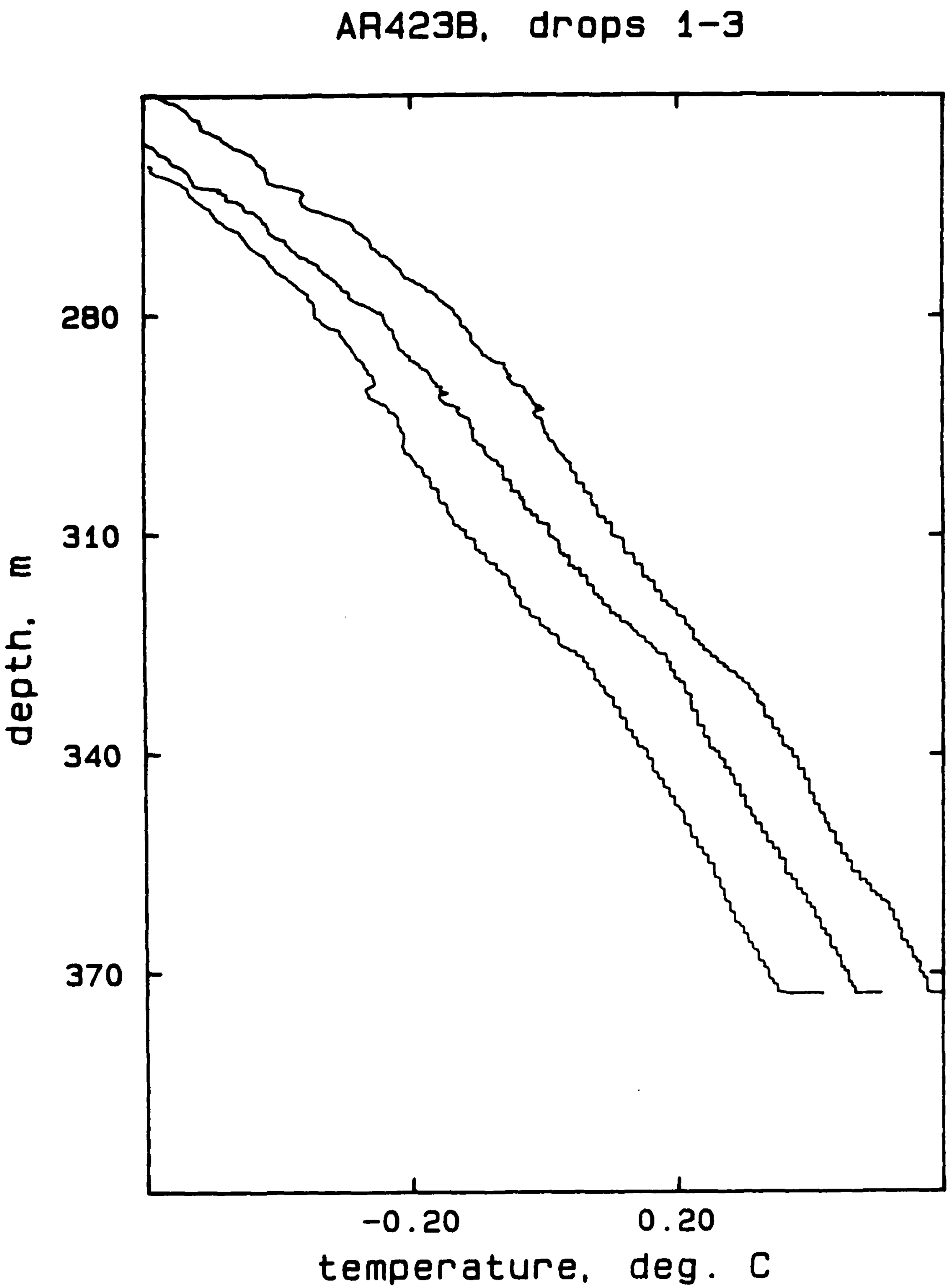
AR423A, drops 2, 3, 7, 8

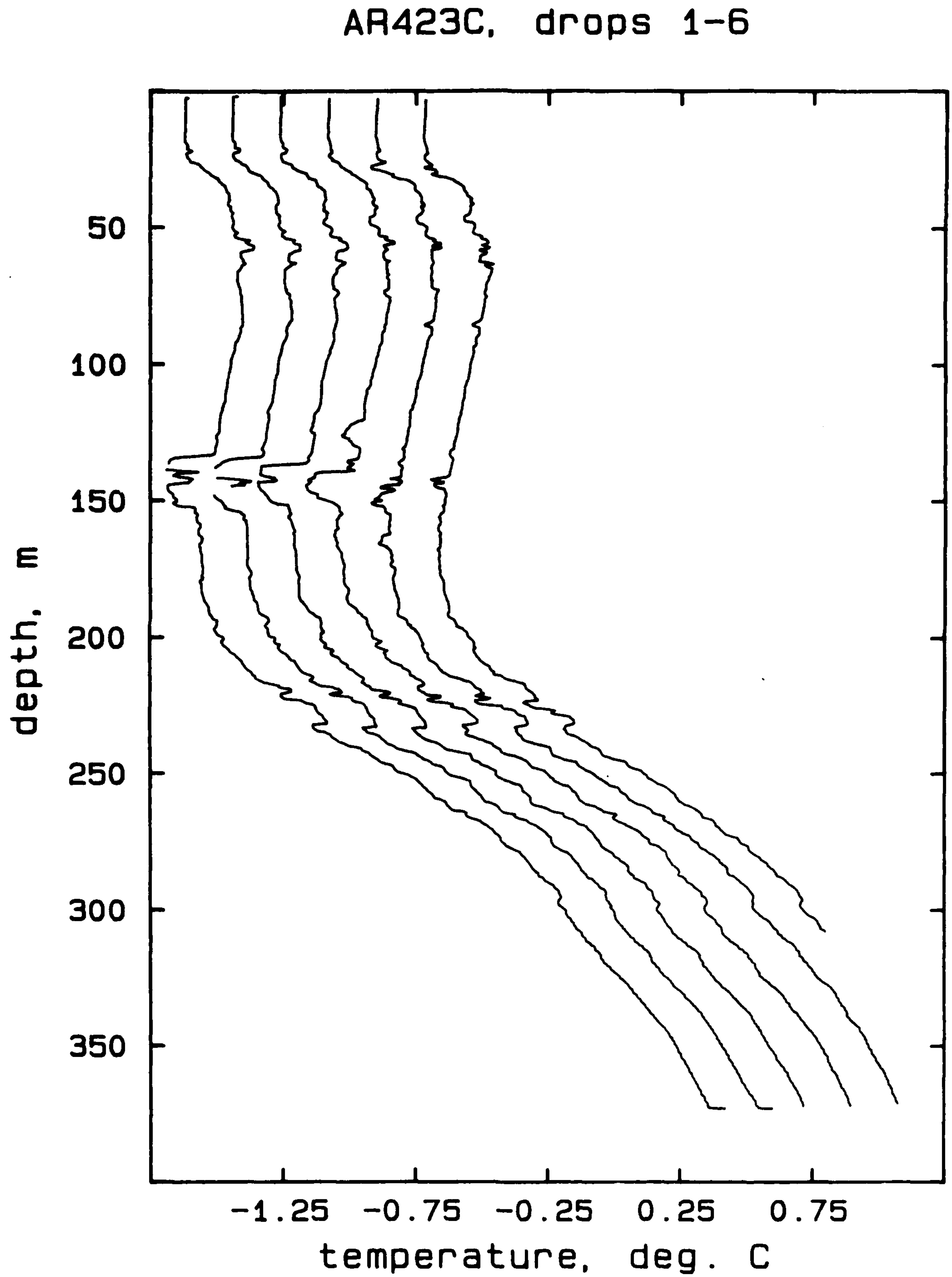



AR423A, drops 2, 4-6
10
20
30
40
50
60
70
80
90
depth, m
-1.55
-1.45
-1.35
-1.25
-1.15
temperature, deg. C

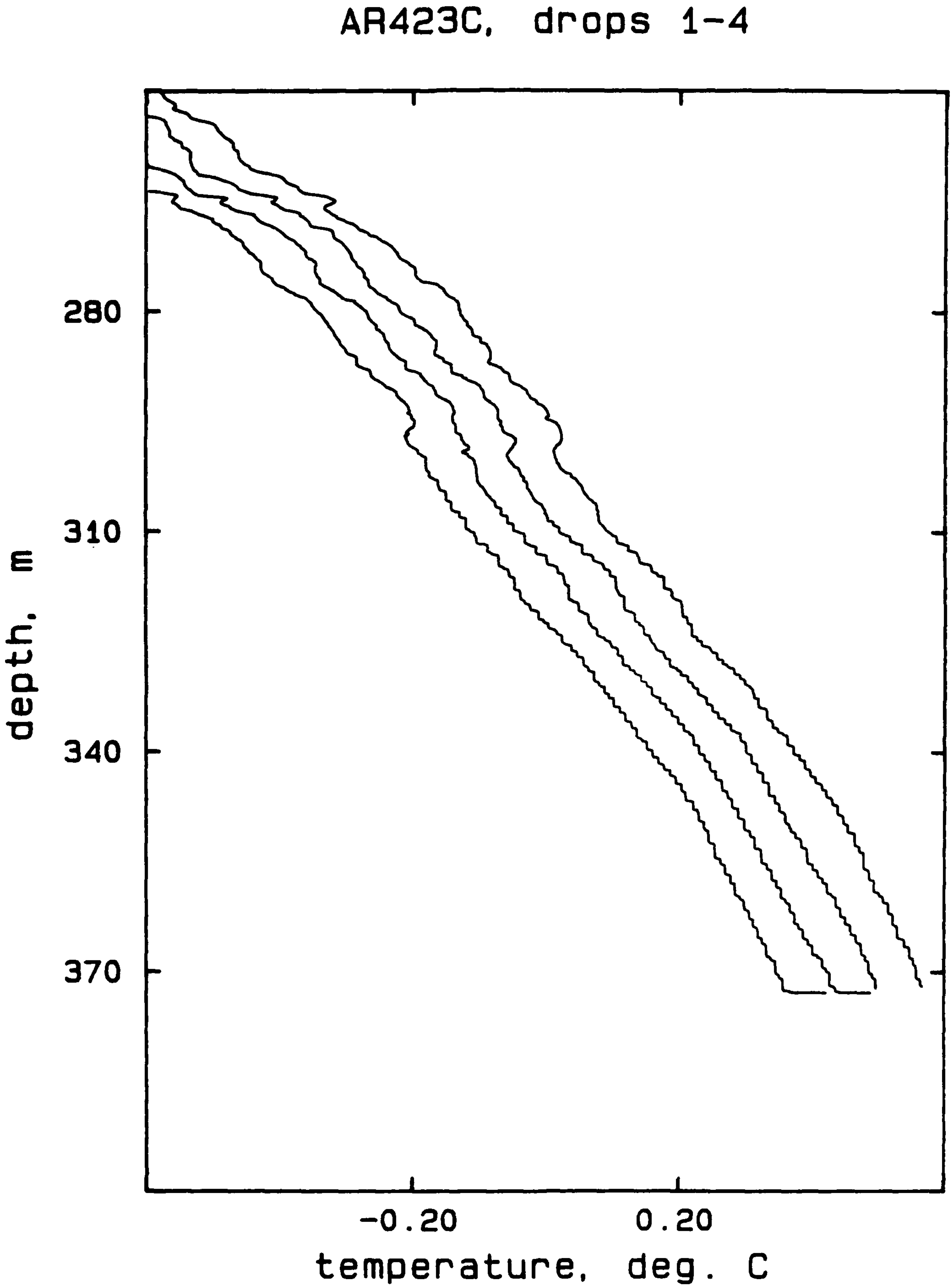

AR423A, drops 7-8
10
20
30
40
50
60
70
80
90
depth, m
-1.55 -1.45 -1.35 -1.25 -1.15
temperature, deg. C

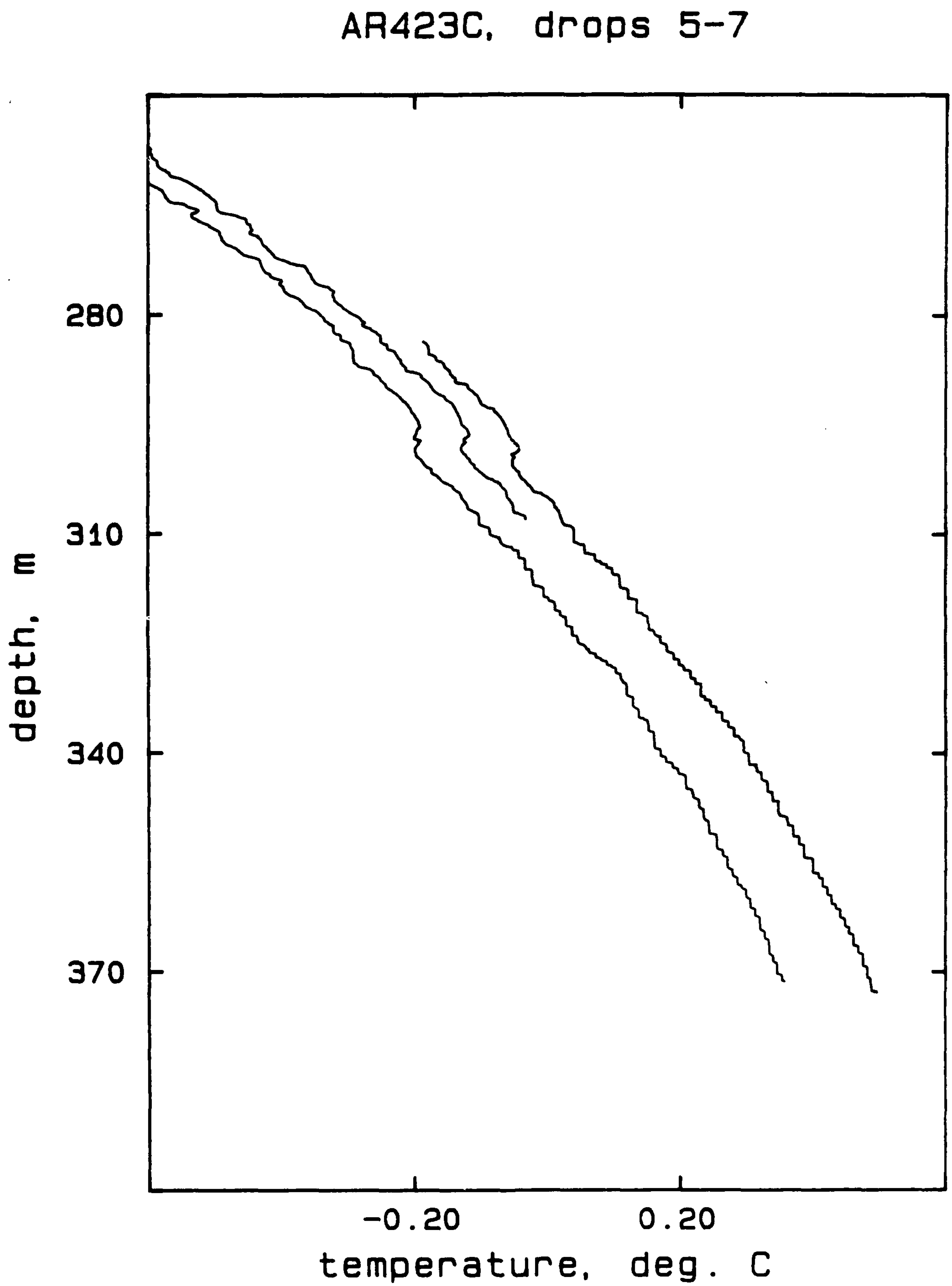

AR423B, drop 1
50
100
150
200
250
300
350
depth, m
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C


AR423B, drops 1-3
280
310
340
370
depth, m
-0.20
0.20
temperature, deg. C

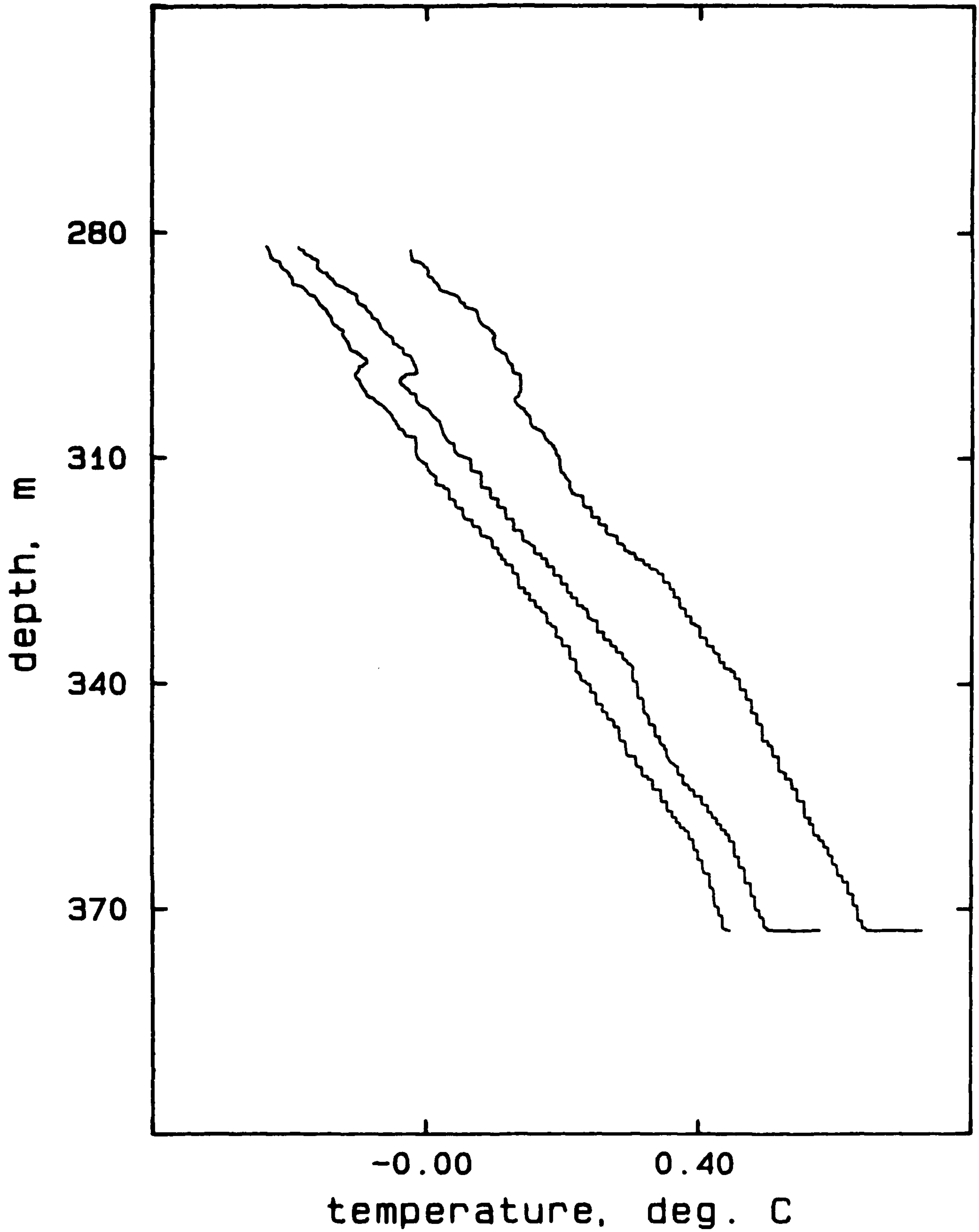


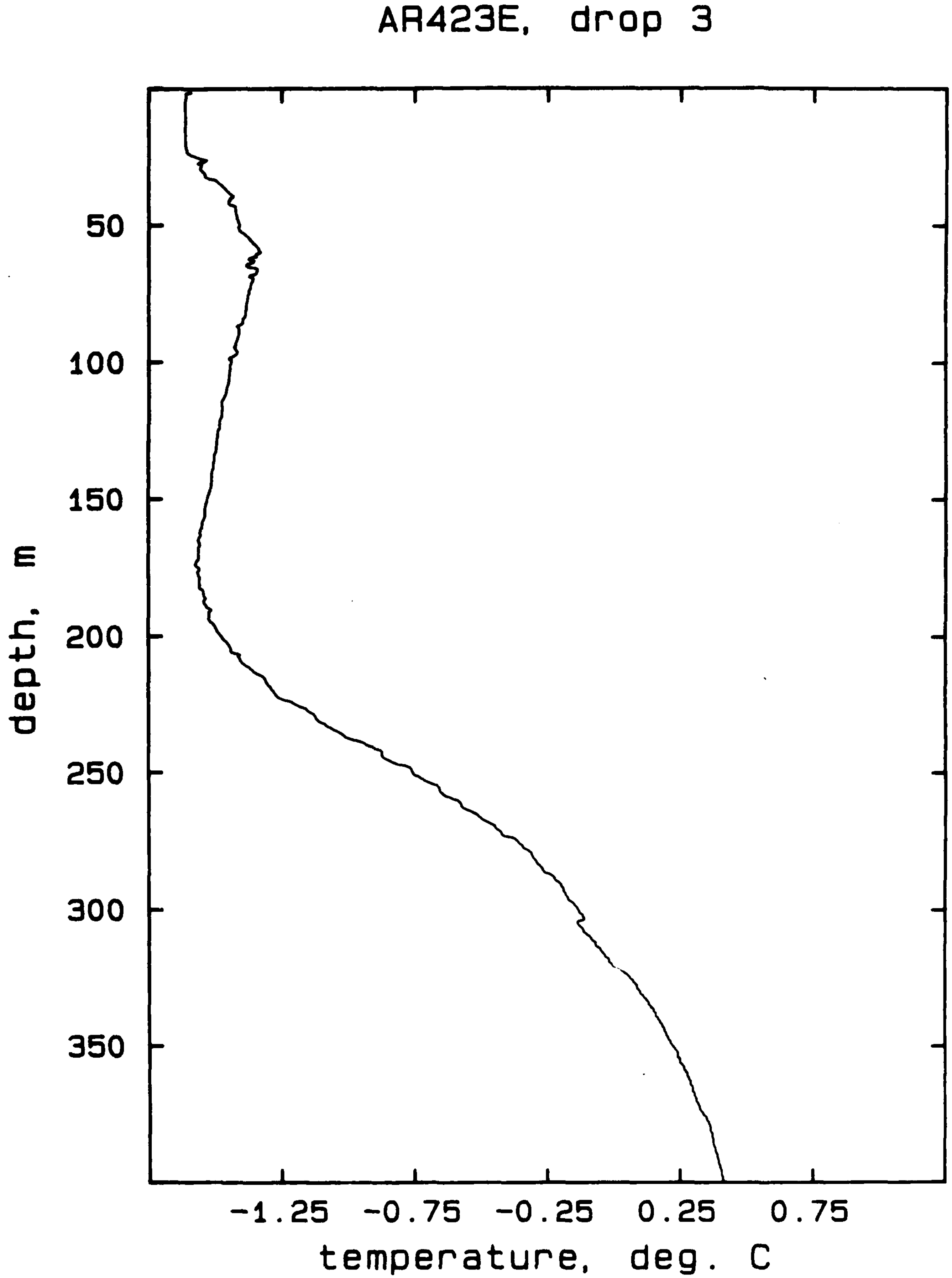
AR423C, drops 1-6
depth, m
50
100
150
200
250
300
350
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C

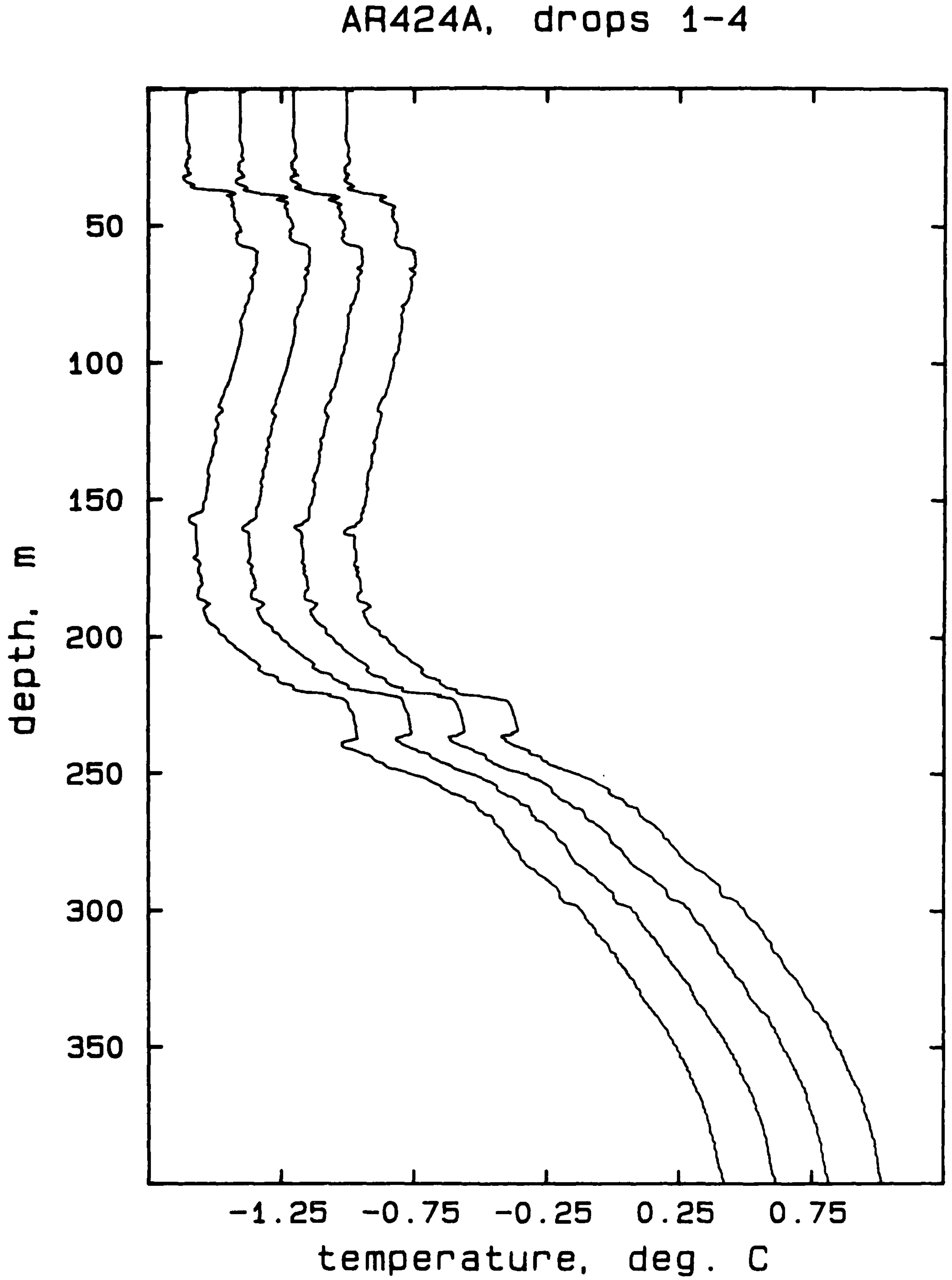

AR423C, drops 1-4
280
310
340
370
depth, m
-0.20
0.20
temperature, deg. C

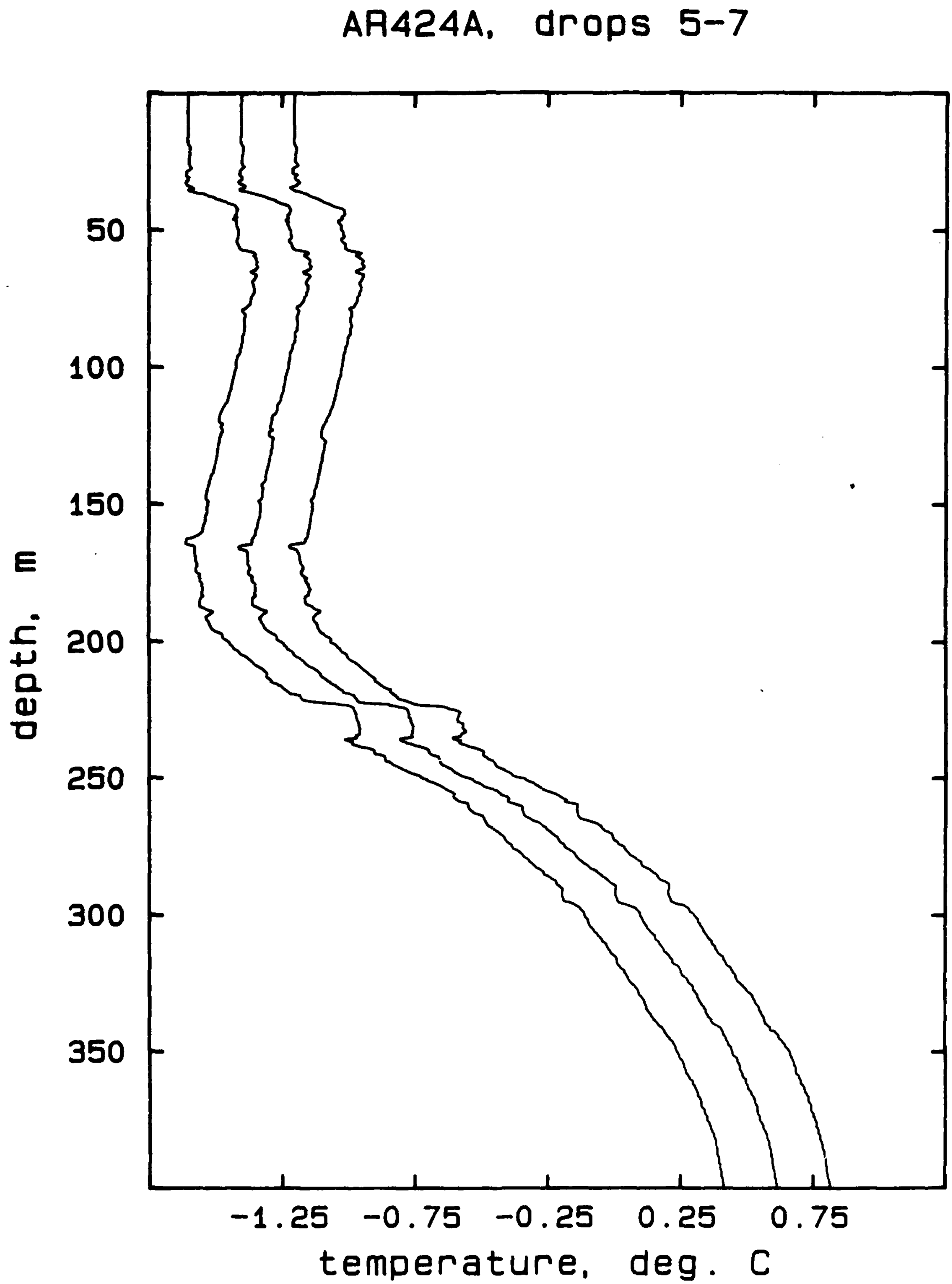

AR423C, drops 5-7
280
310
340
370
depth, m
-0.20
0.20
temperature, deg. C

AR423D, drops 1-3

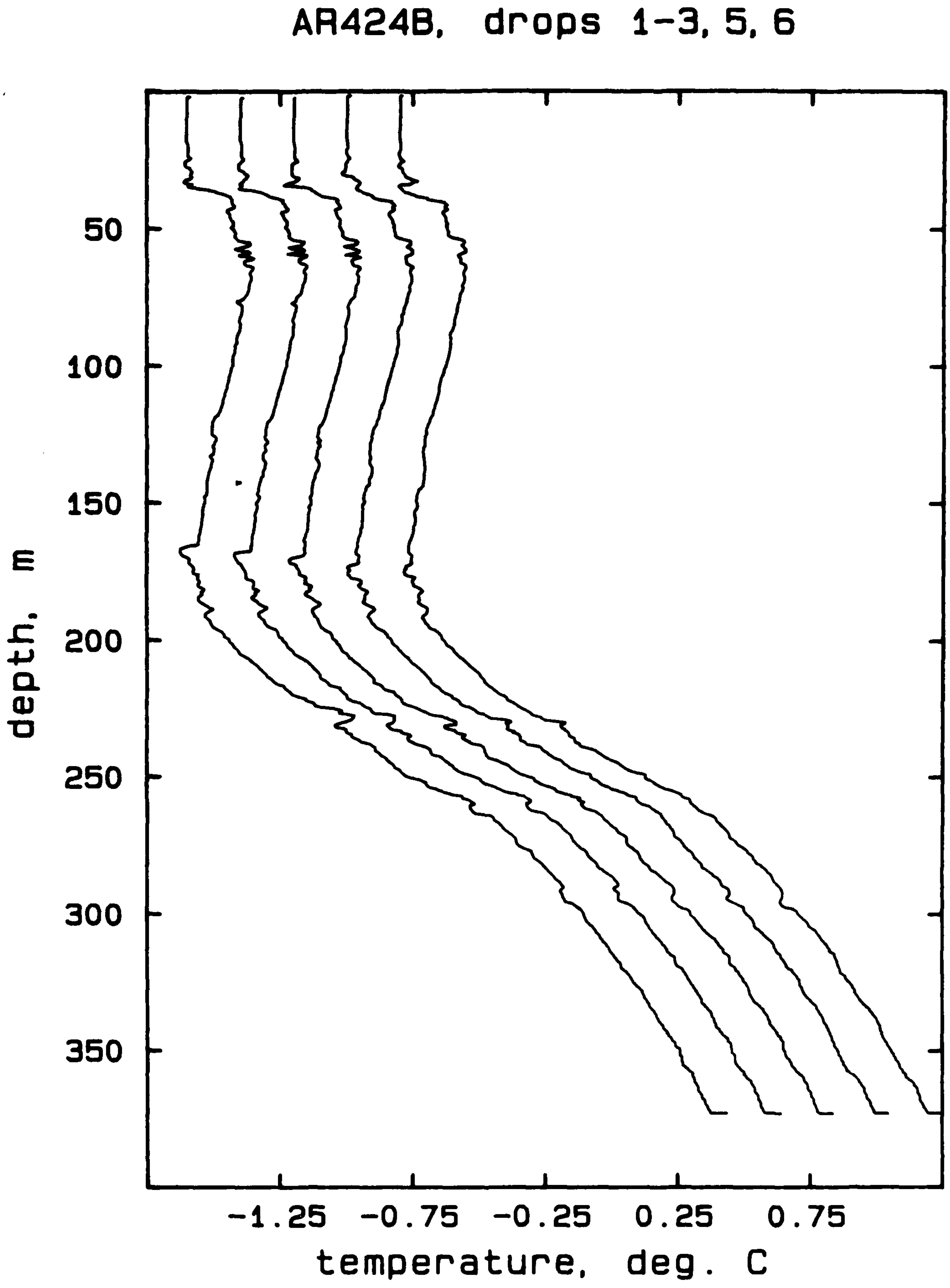


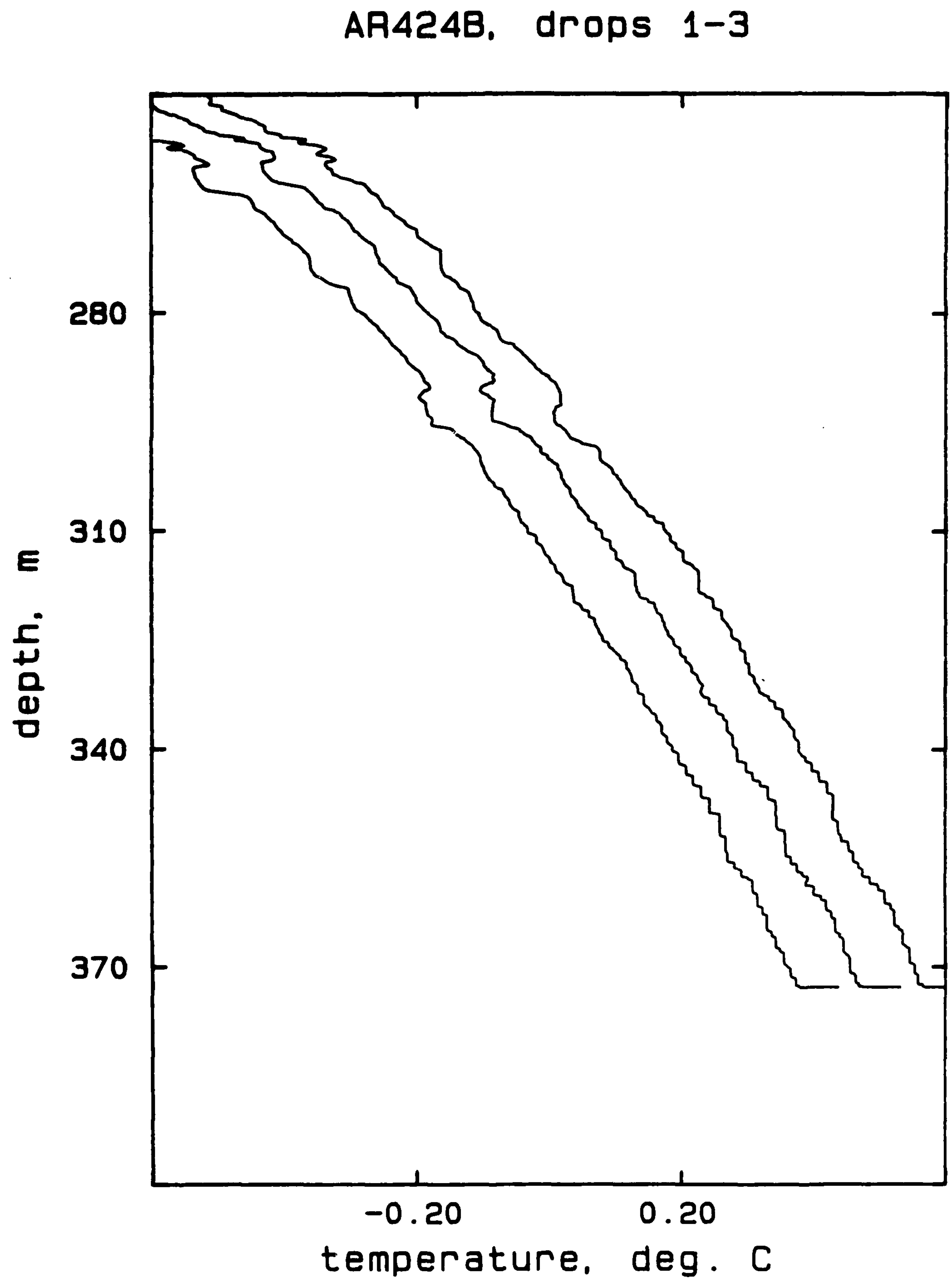

AR423E, drop 3
50
100
150
200
250
300
350
depth, m
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C

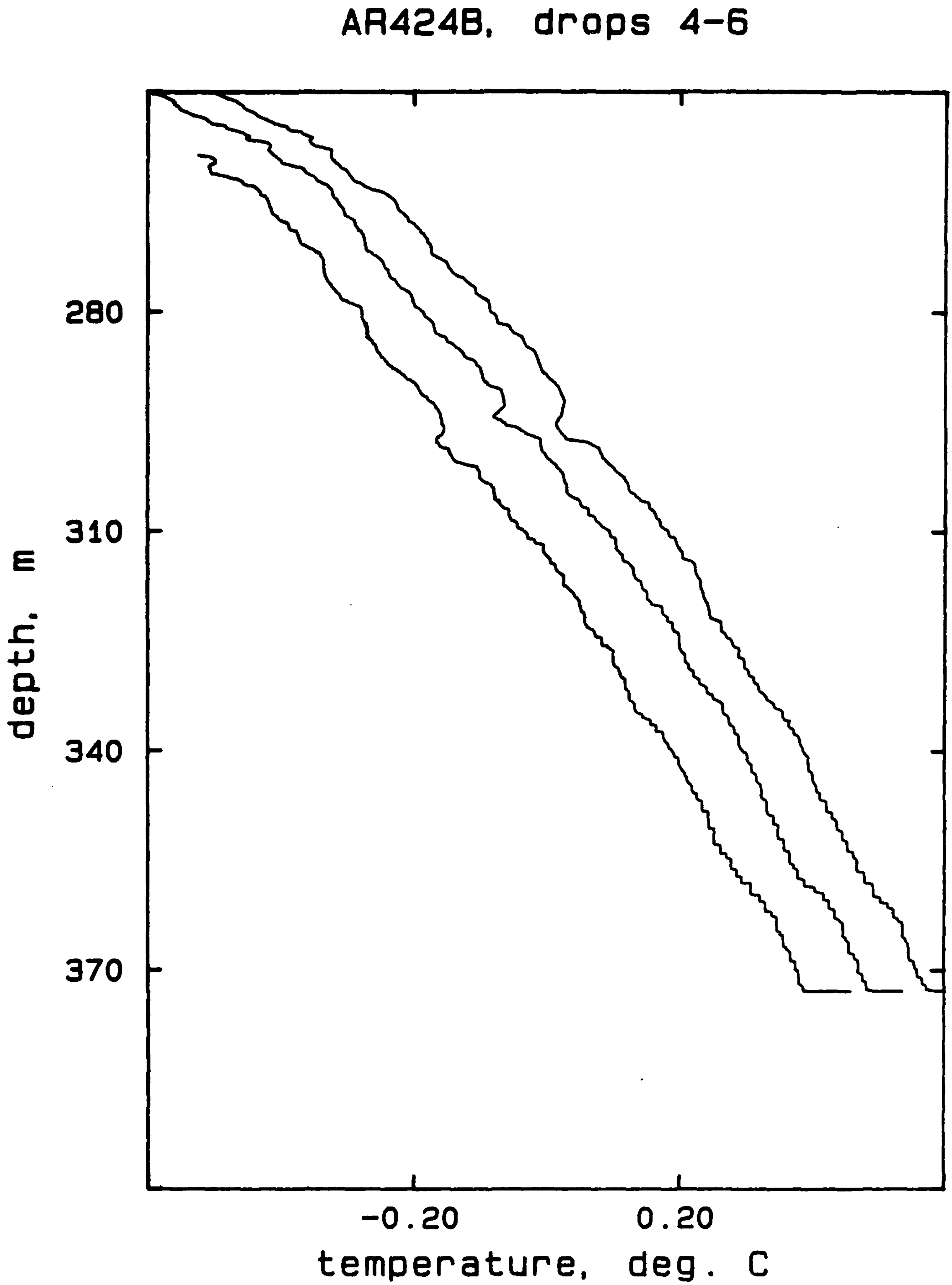

AR424A, drops 1-4
50
100
150
200
250
300
350
depth, m
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C



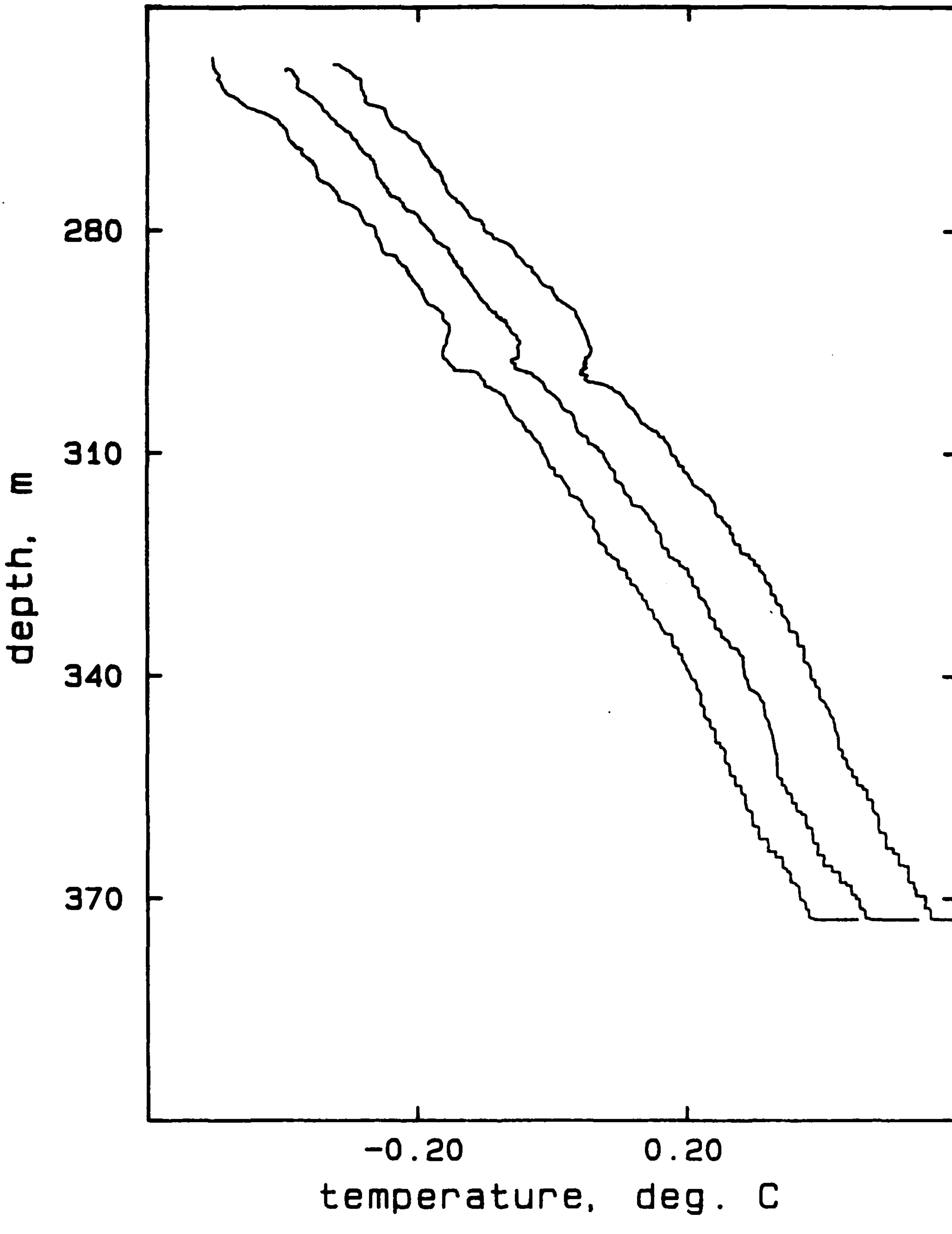
AR424A, drops 5-7
50
100
150
200
250
300
350
depth, m
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C

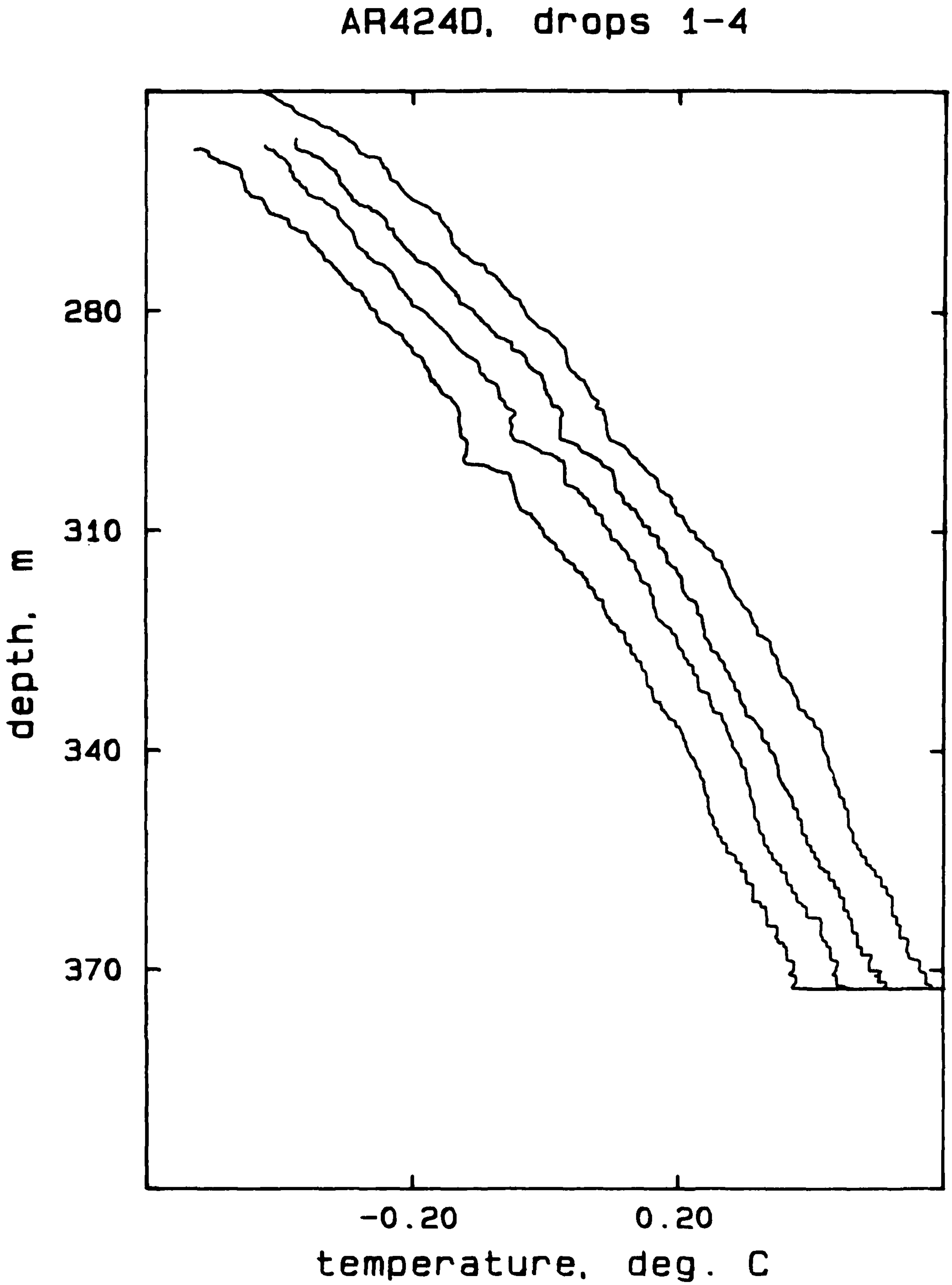

AR424B, drops 1-3, 5, 6
depth, m
50
100
150
200
250
300
350
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C


AR424B, drops 1-3
280
310
340
370
depth, m
-0.20
0.20
temperature, deg. C

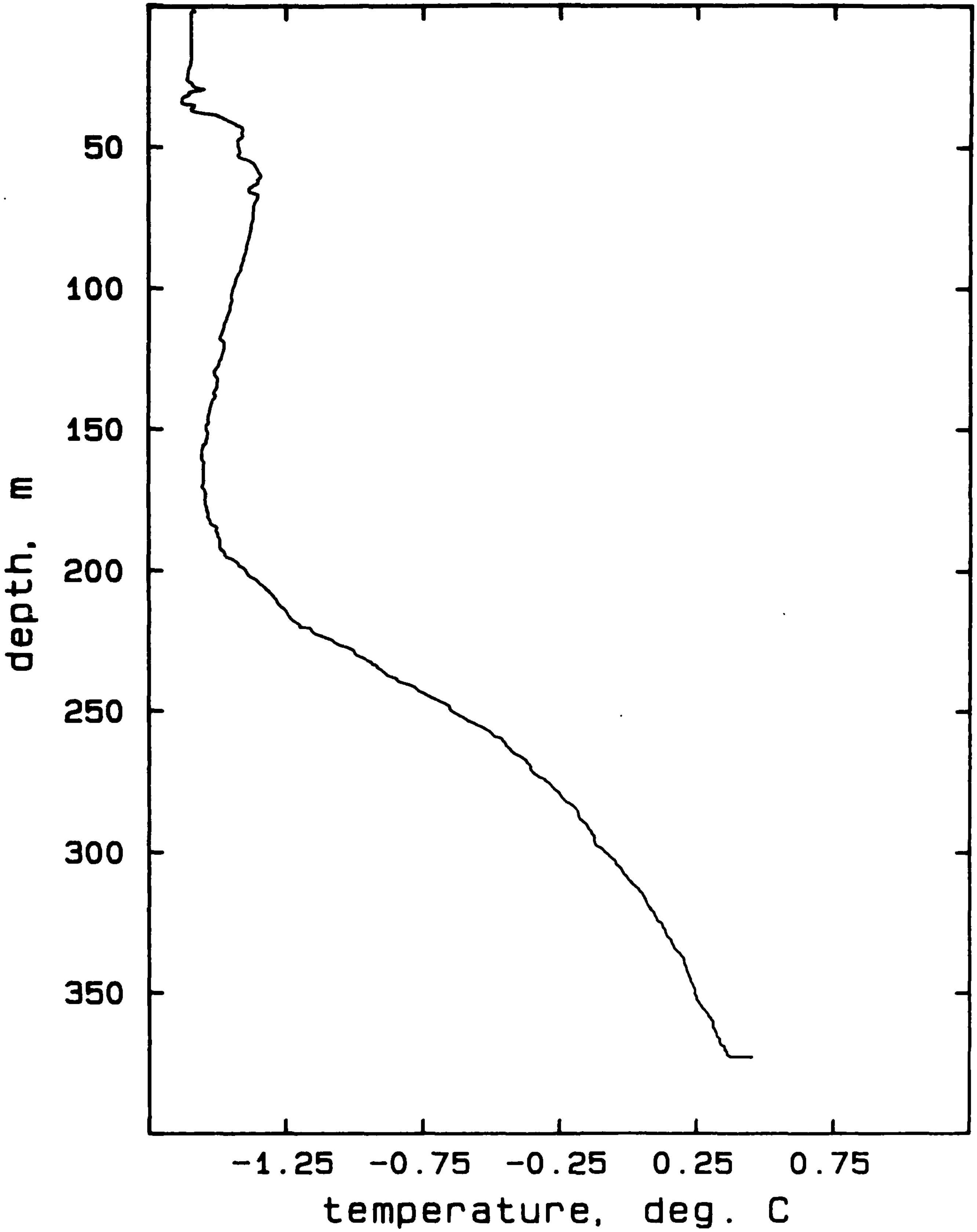

AR424B, drops 4-6
280
310
340
370
depth, m
-0.20
0.20
temperature, deg. C

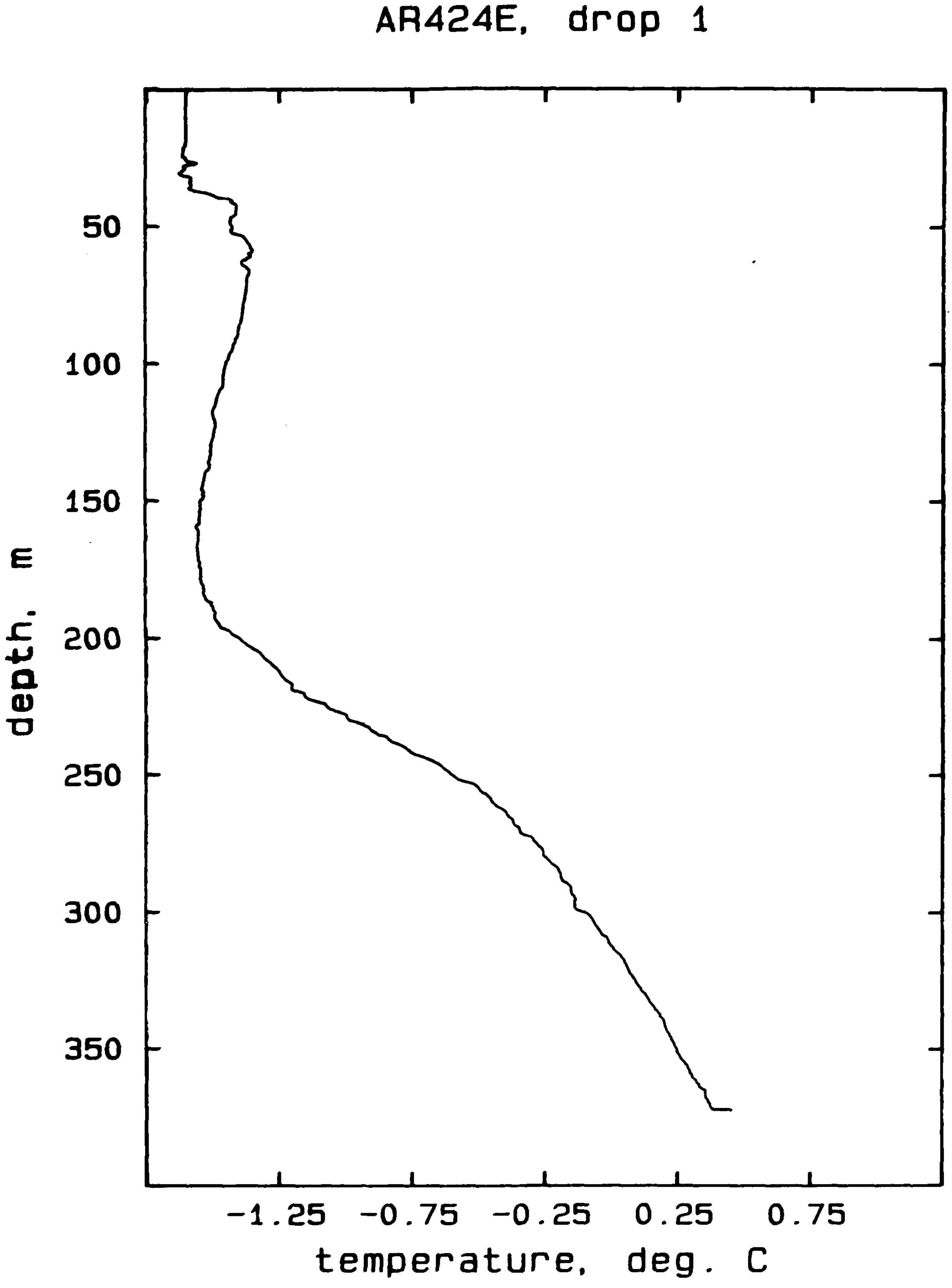
AR424C, drops 1-3

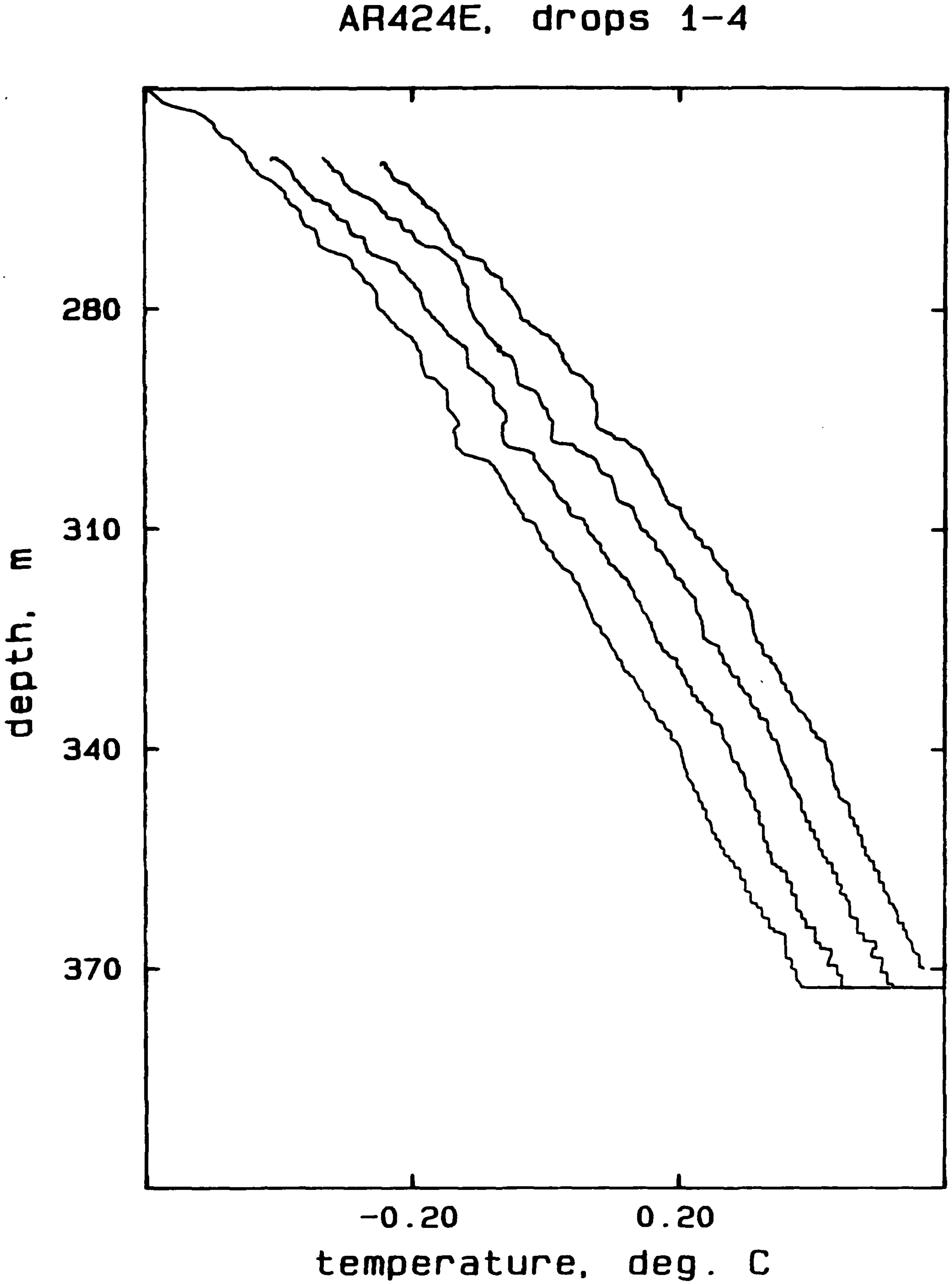


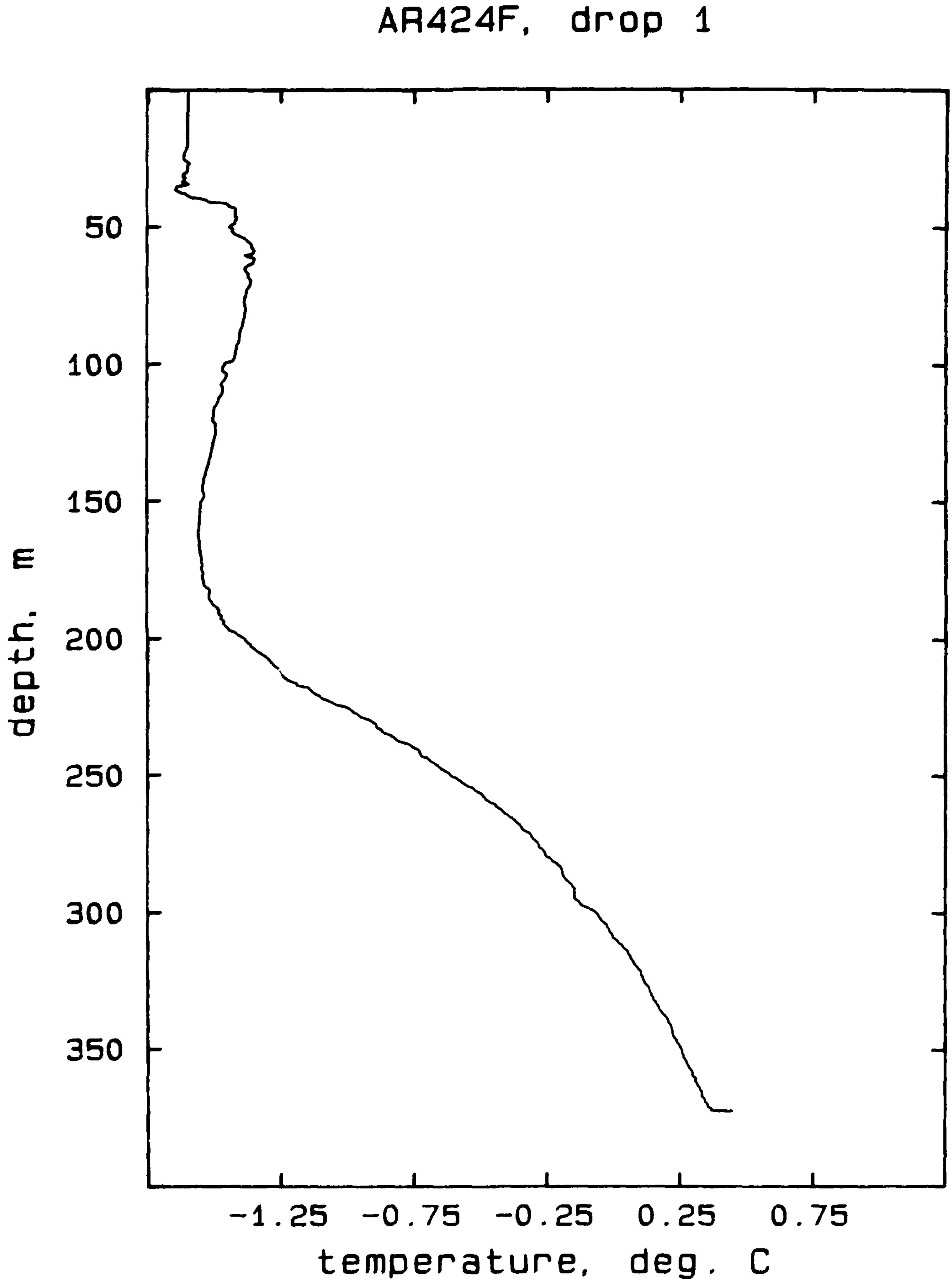

AR424D, drops 1-4
280
310
340
370
depth, m
-0.20
0.20
temperature, deg. C

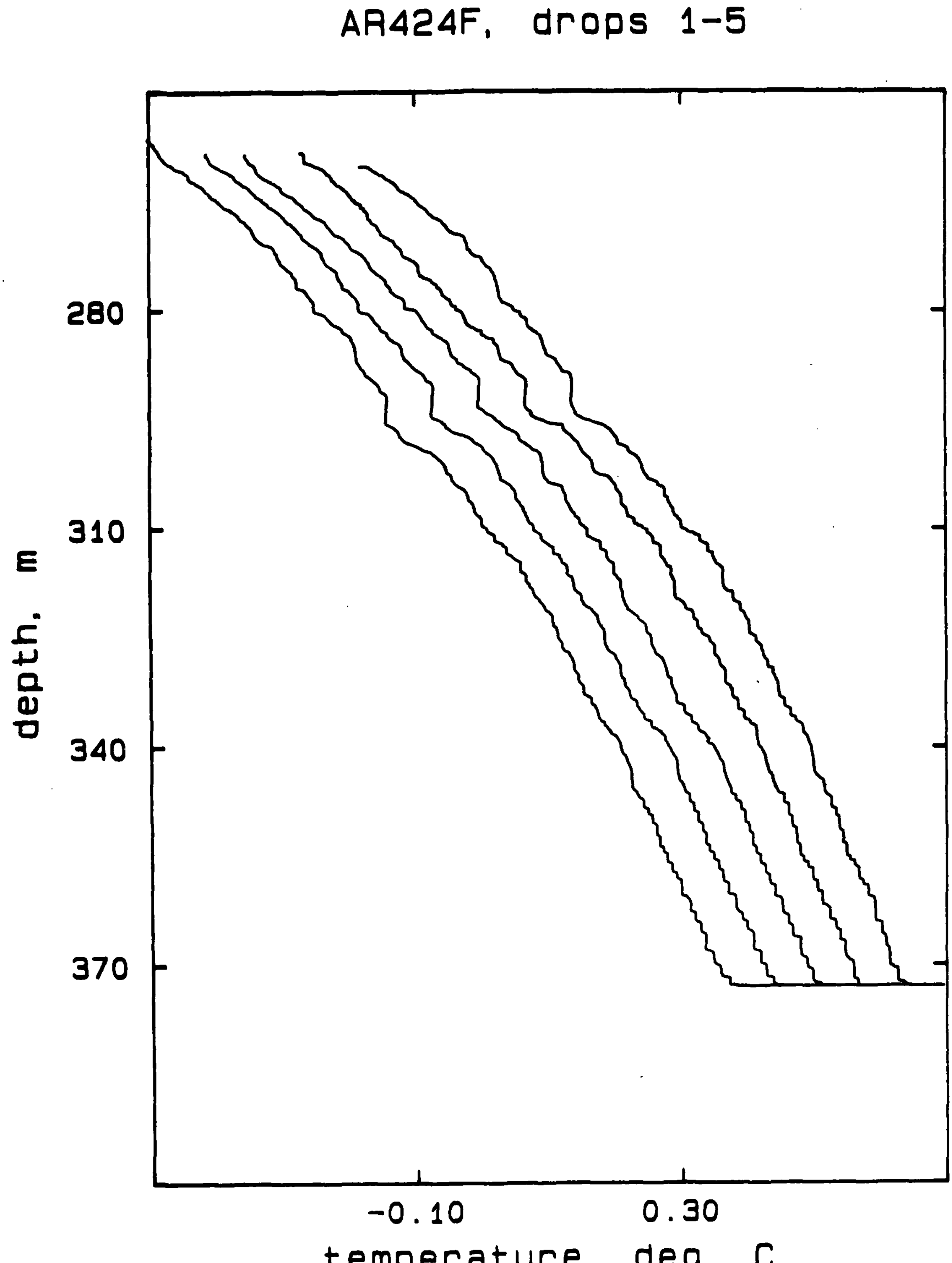
AR424D, drop 4

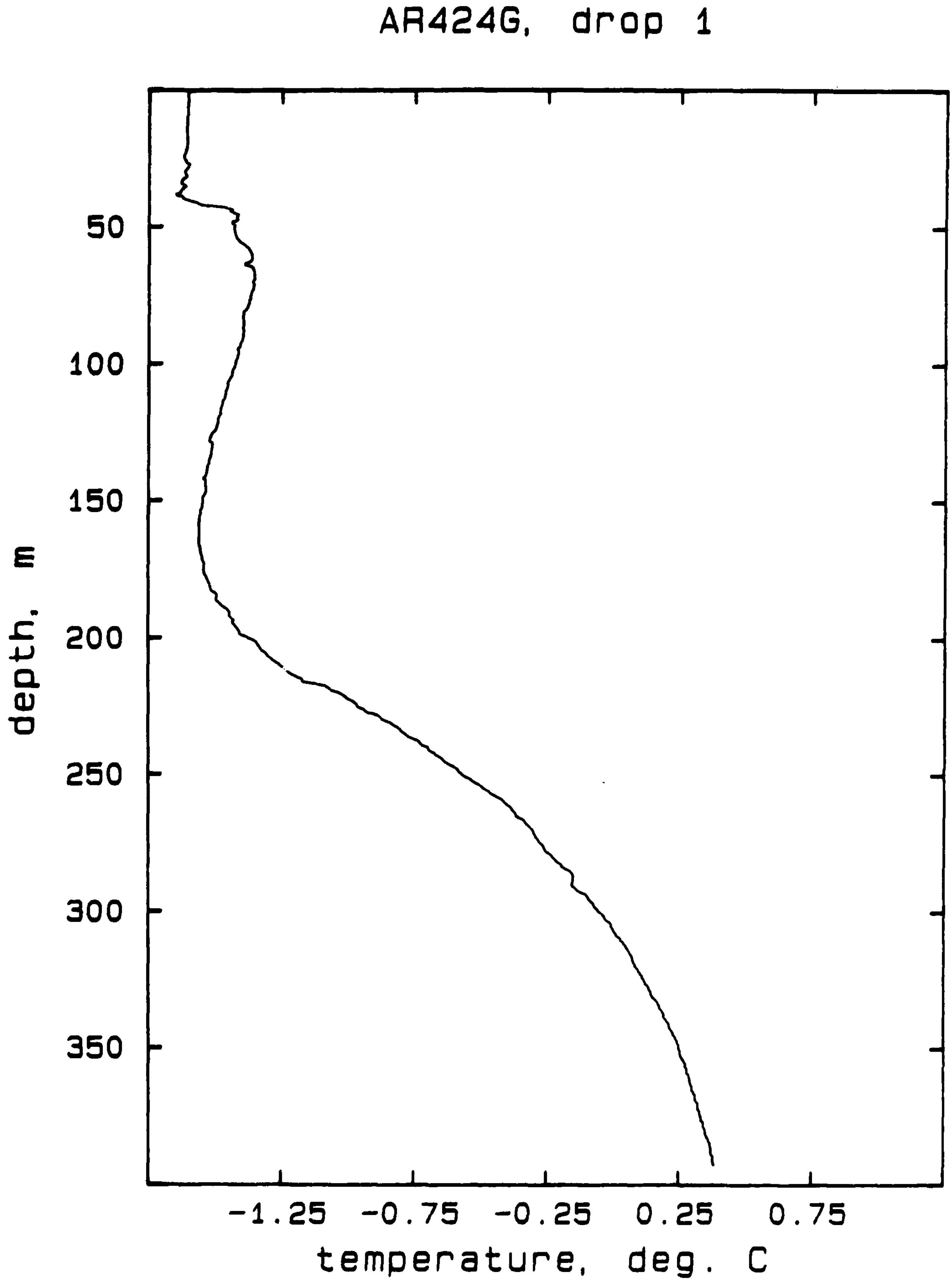


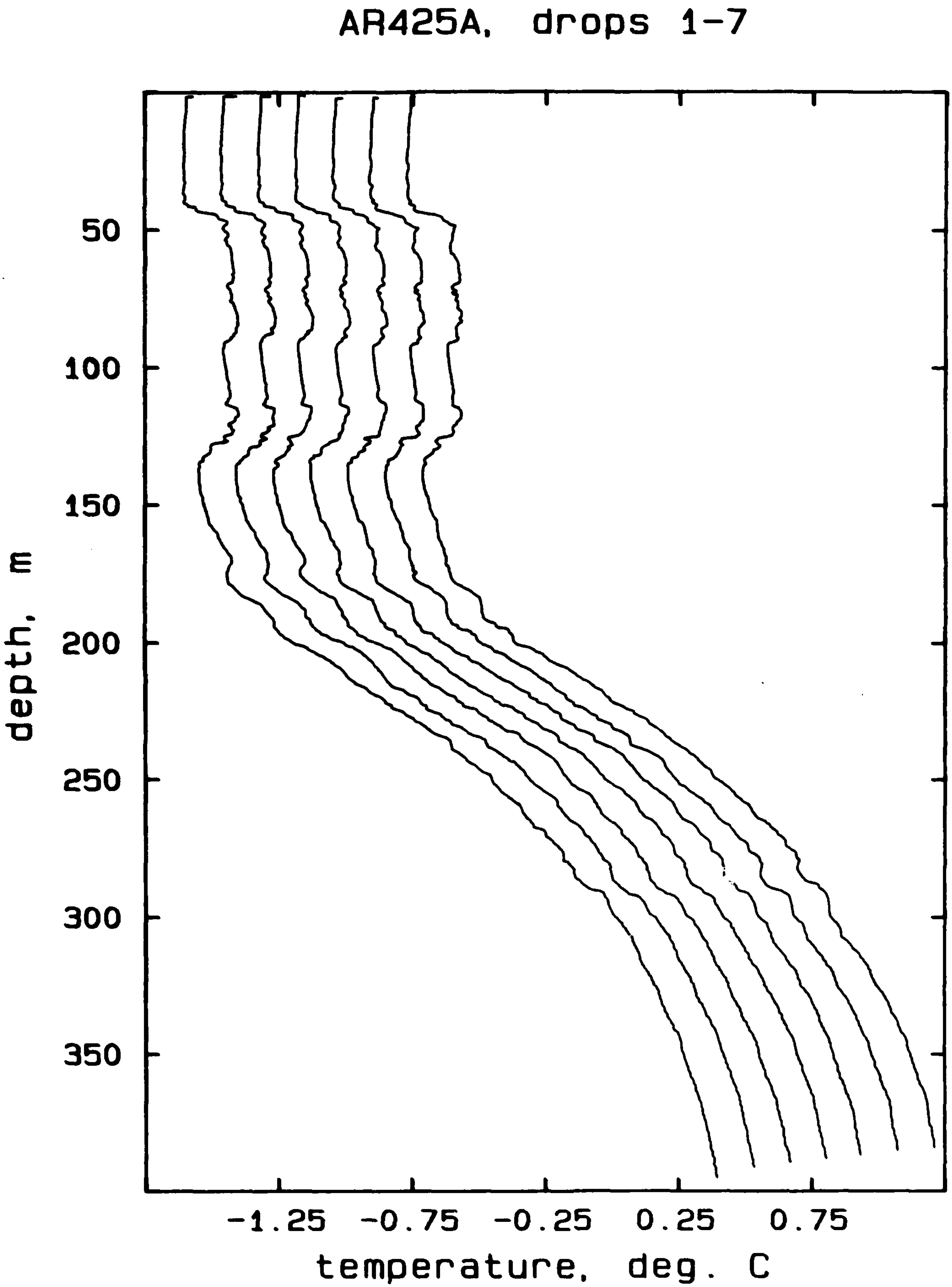

AR424E, drop 1
50
100
150
200
250
300
350
depth, m
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C

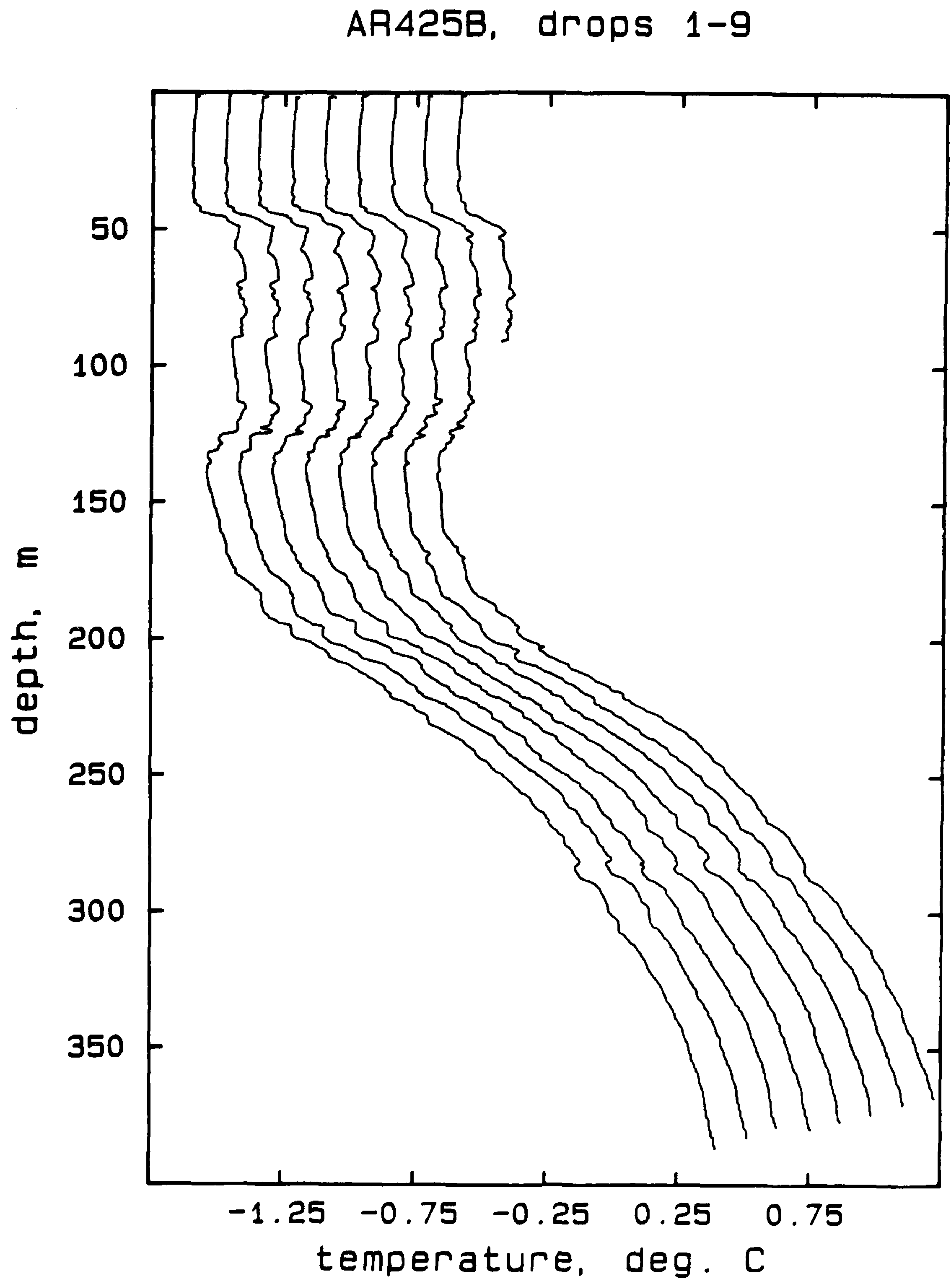

AR424E, drops 1-4
280
310
340
370
depth, m
-0.20
0.20
temperature, deg. C


AR424F, drop 1
50
100
150
200
250
300
350
depth, m
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C


AR424F, drops 1-5
280
310
340
370
depth, m
-0.10
0.30
temperature, deg. C

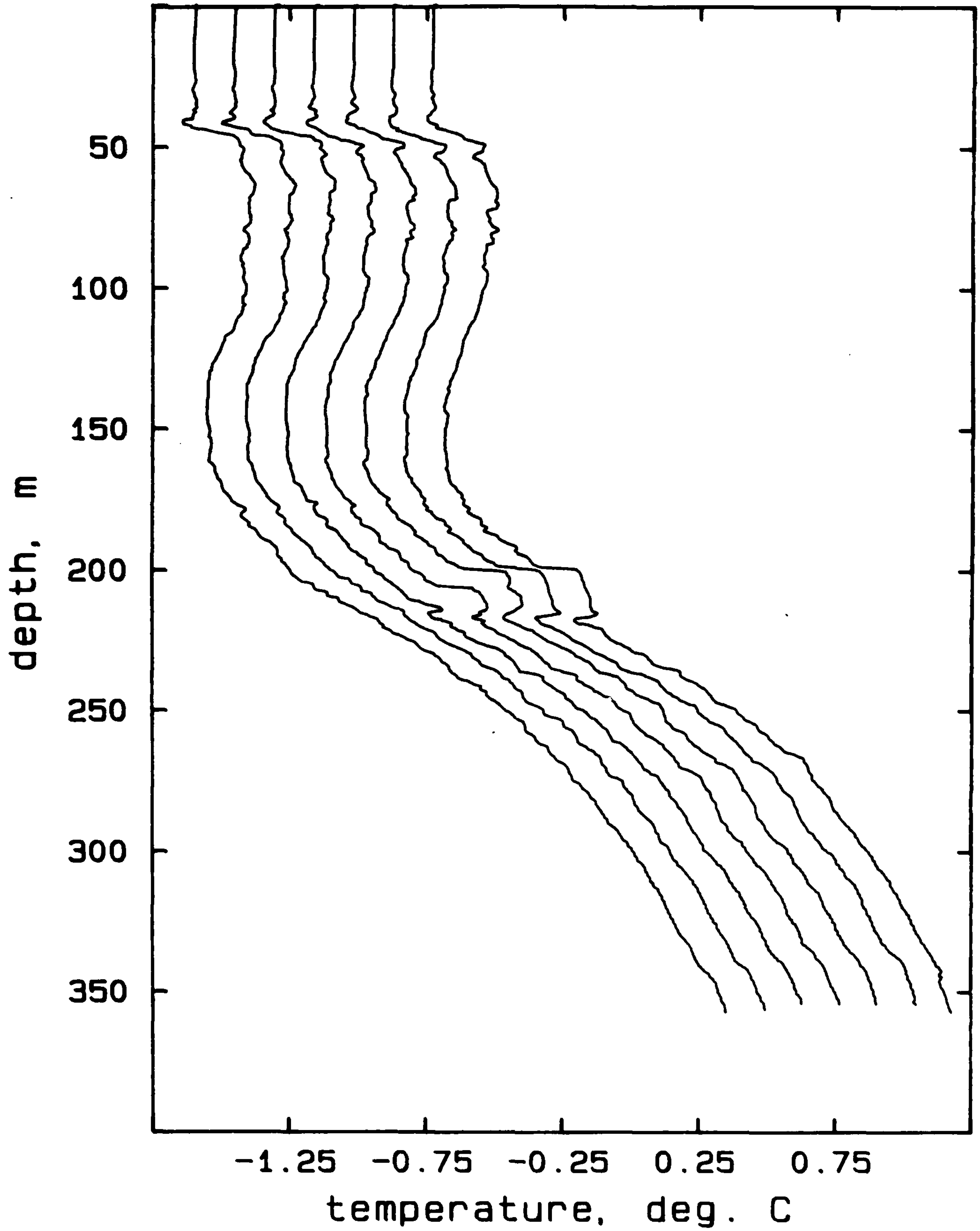

AR424G, drop 1
50
100
150
200
250
300
350
depth, m
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C

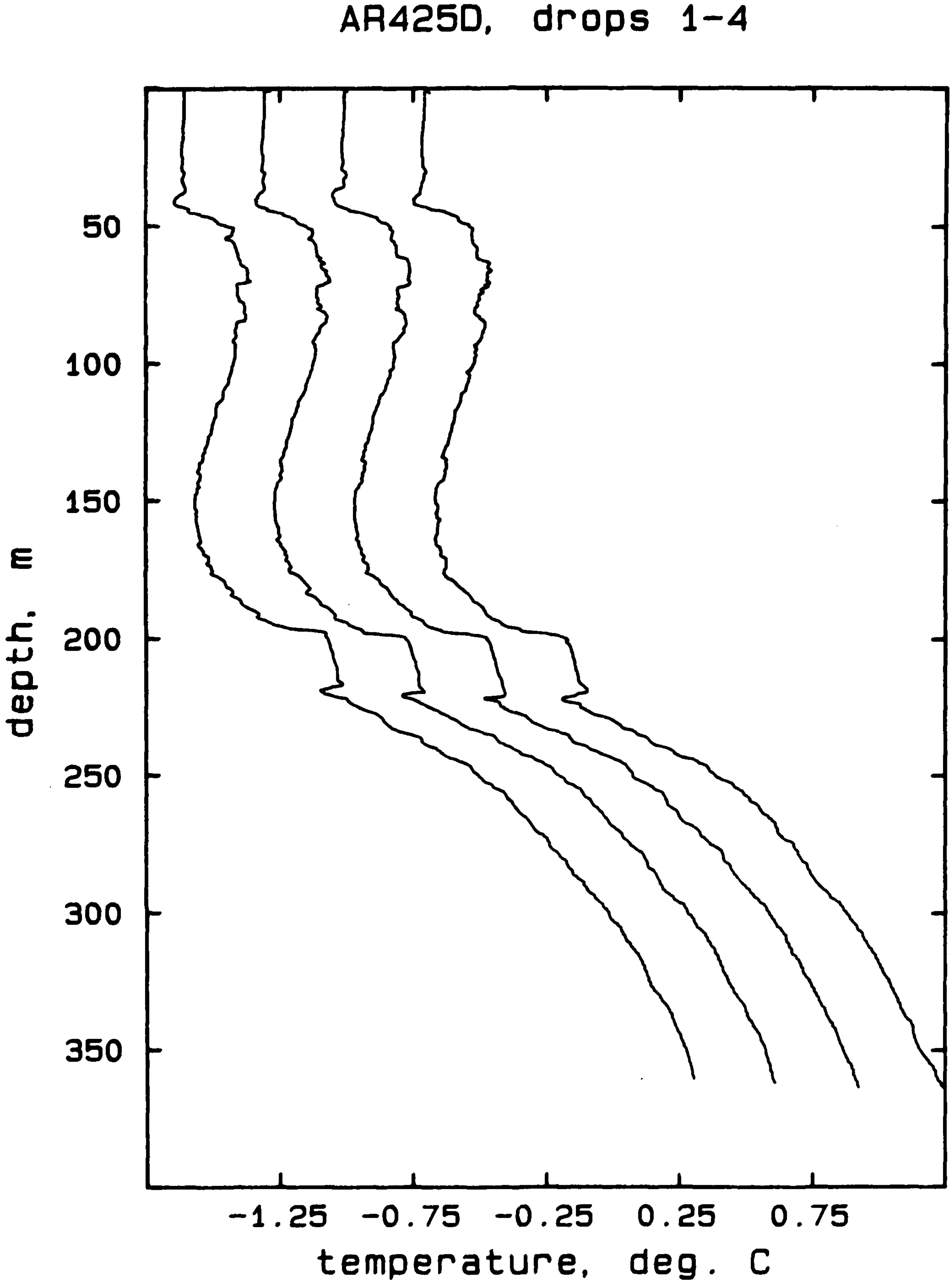

AR425A, drops 1-7
depth, m
50
100
150
200
250
300
350
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C

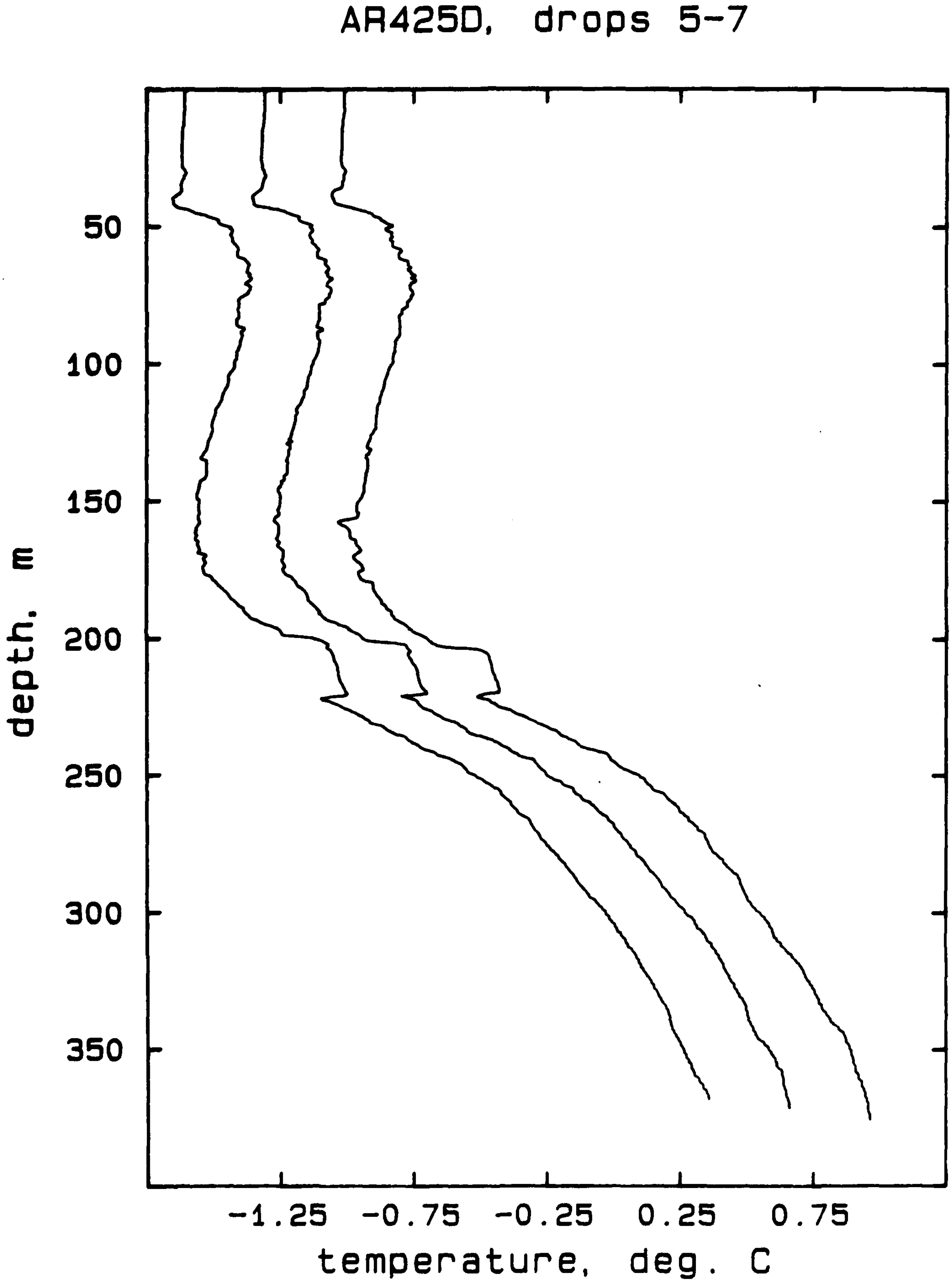


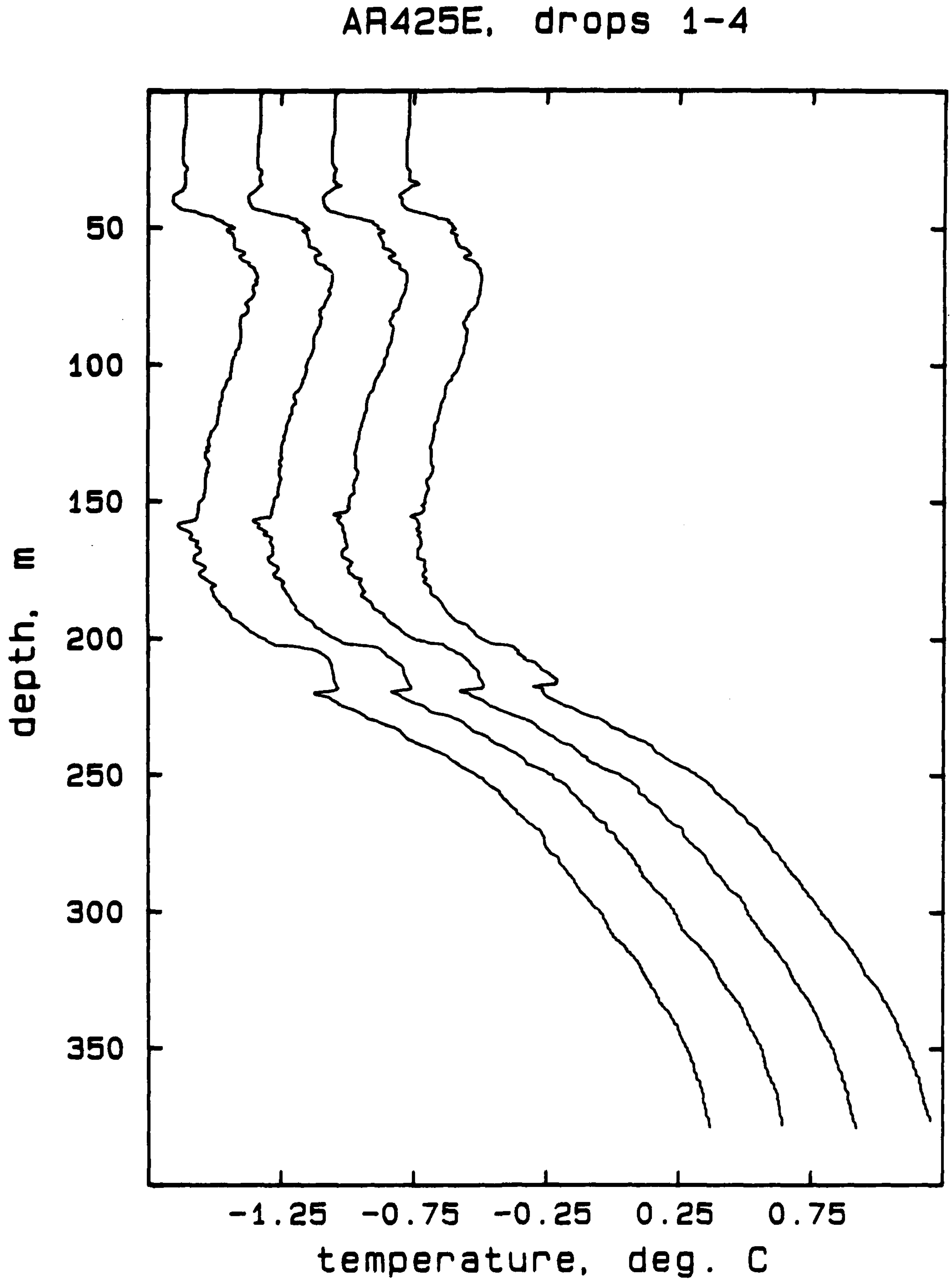
AR425B, drops 1-9
50
100
150
200
250
300
350
depth, m
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C

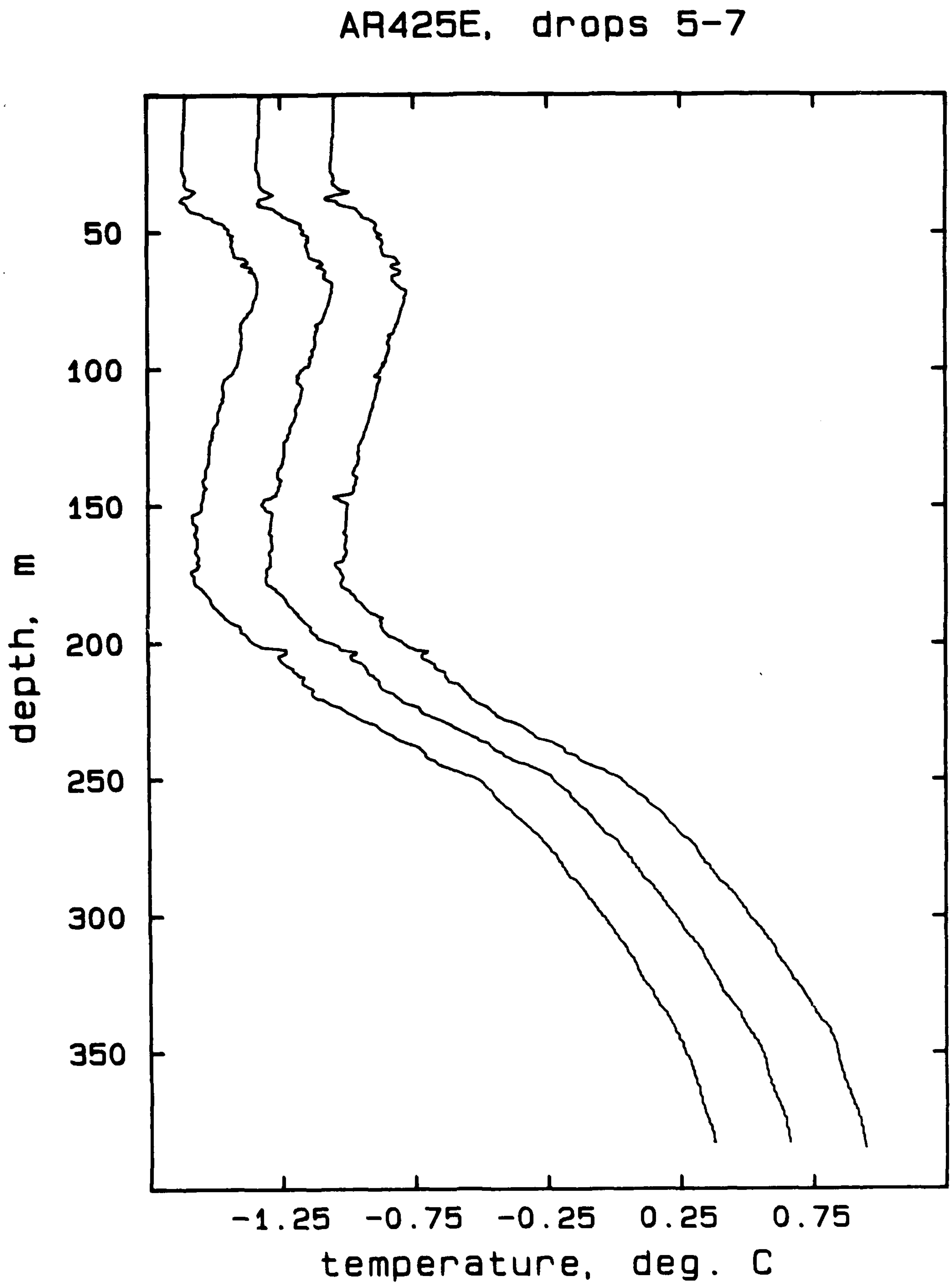
AR425C, drops 1-7

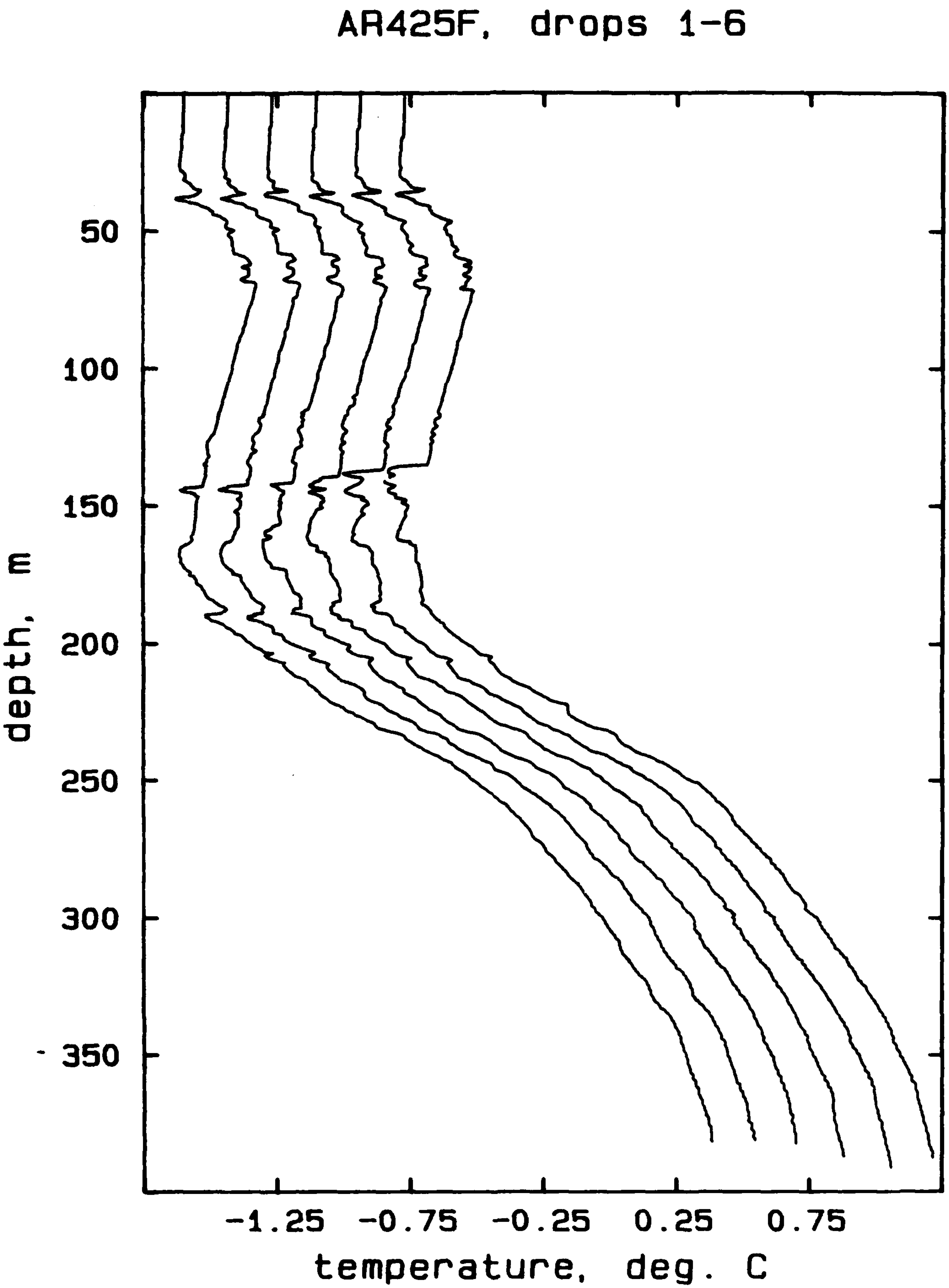



AR425D, drops 1-4
50
100
150
200
250
300
350
depth, m
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C

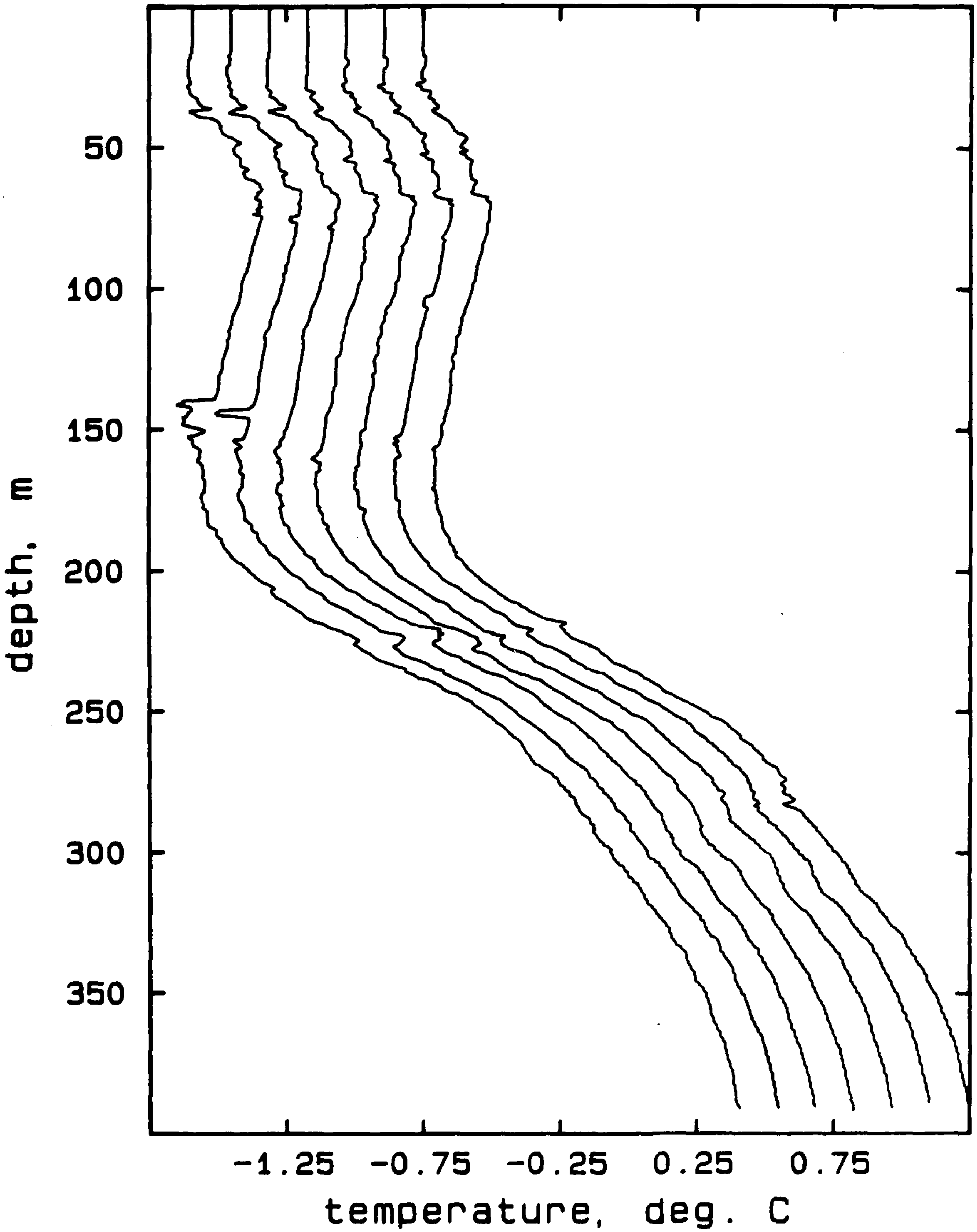

AR425D, drops 5-7
depth, m
50
100
150
200
250
300
350
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C

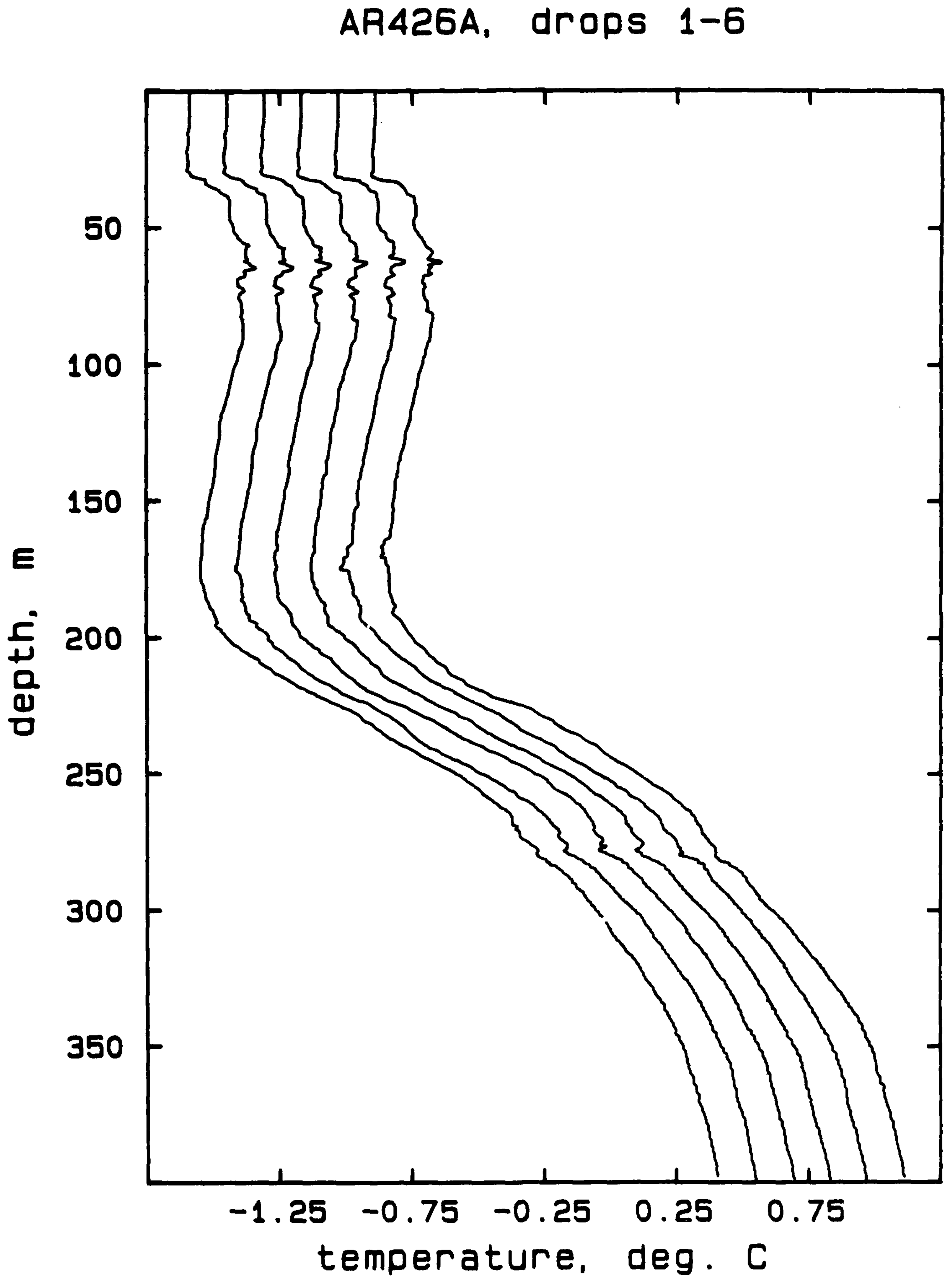

AR425E, drops 1-4
50
100
150
200
250
300
350
depth, m
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C


AR425E, drops 5-7
depth, m
50
100
150
200
250
300
350
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C


AR425F, drops 1-6
50
100
150
200
250
300
350
depth, m
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C

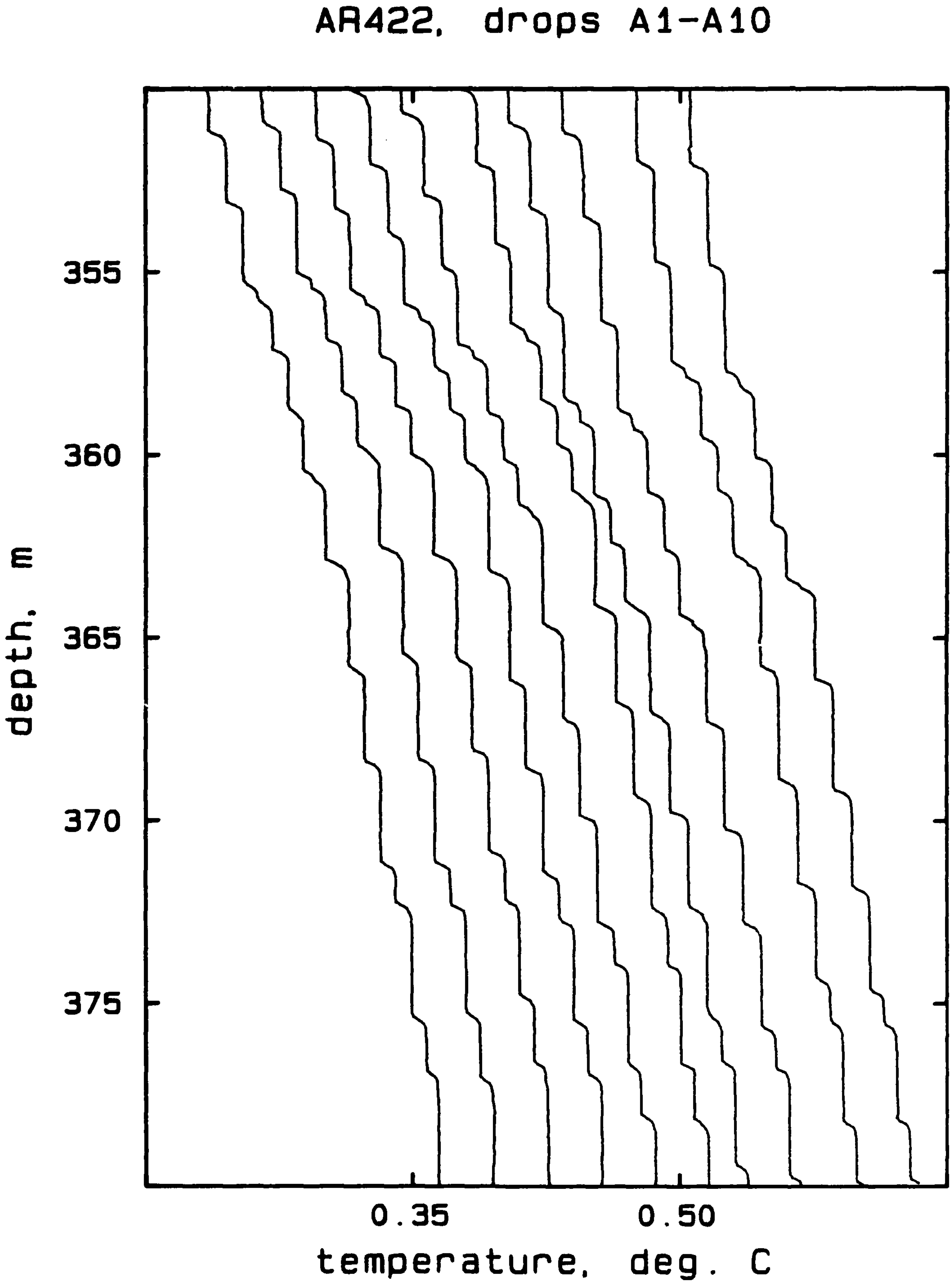
AR425G, drops 1-7



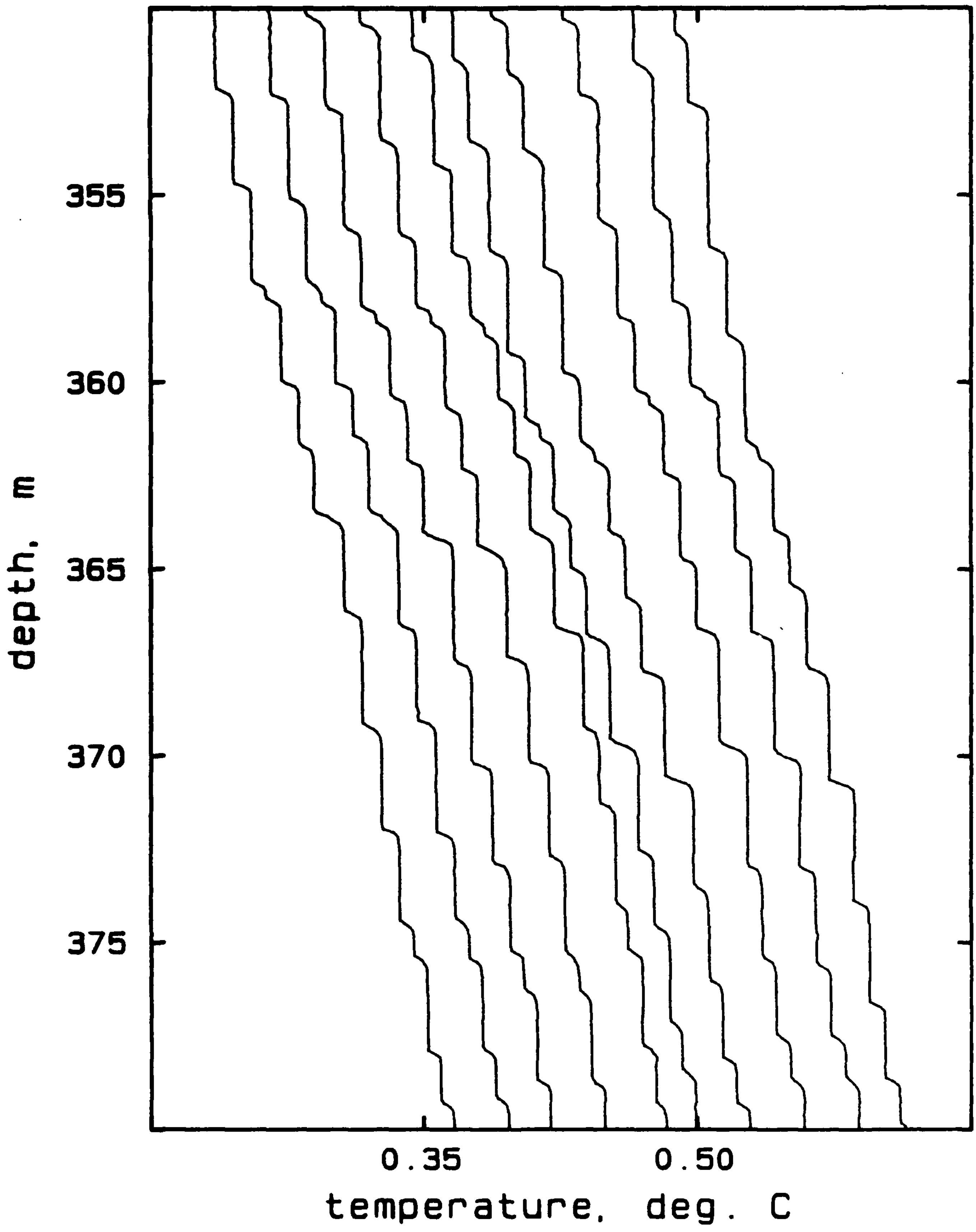

AR426A, drops 1-6
50
100
150
200
250
300
350
depth, m
-1.25
-0.75
-0.25
0.25
0.75
temperature, deg. C

OBSERVATIONS:

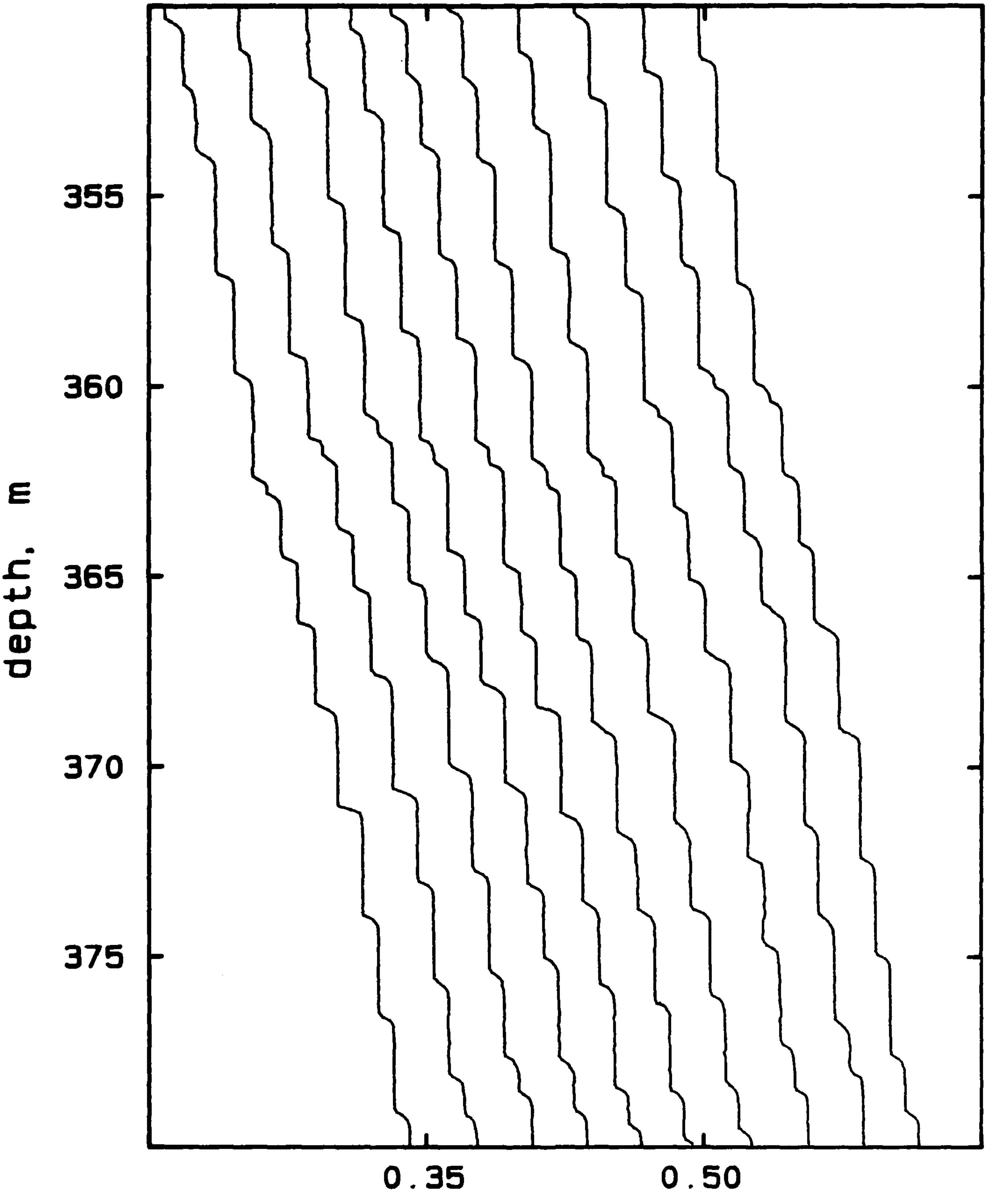
D. STAIRCASE TEMPERATURE PROFILE DETAIL

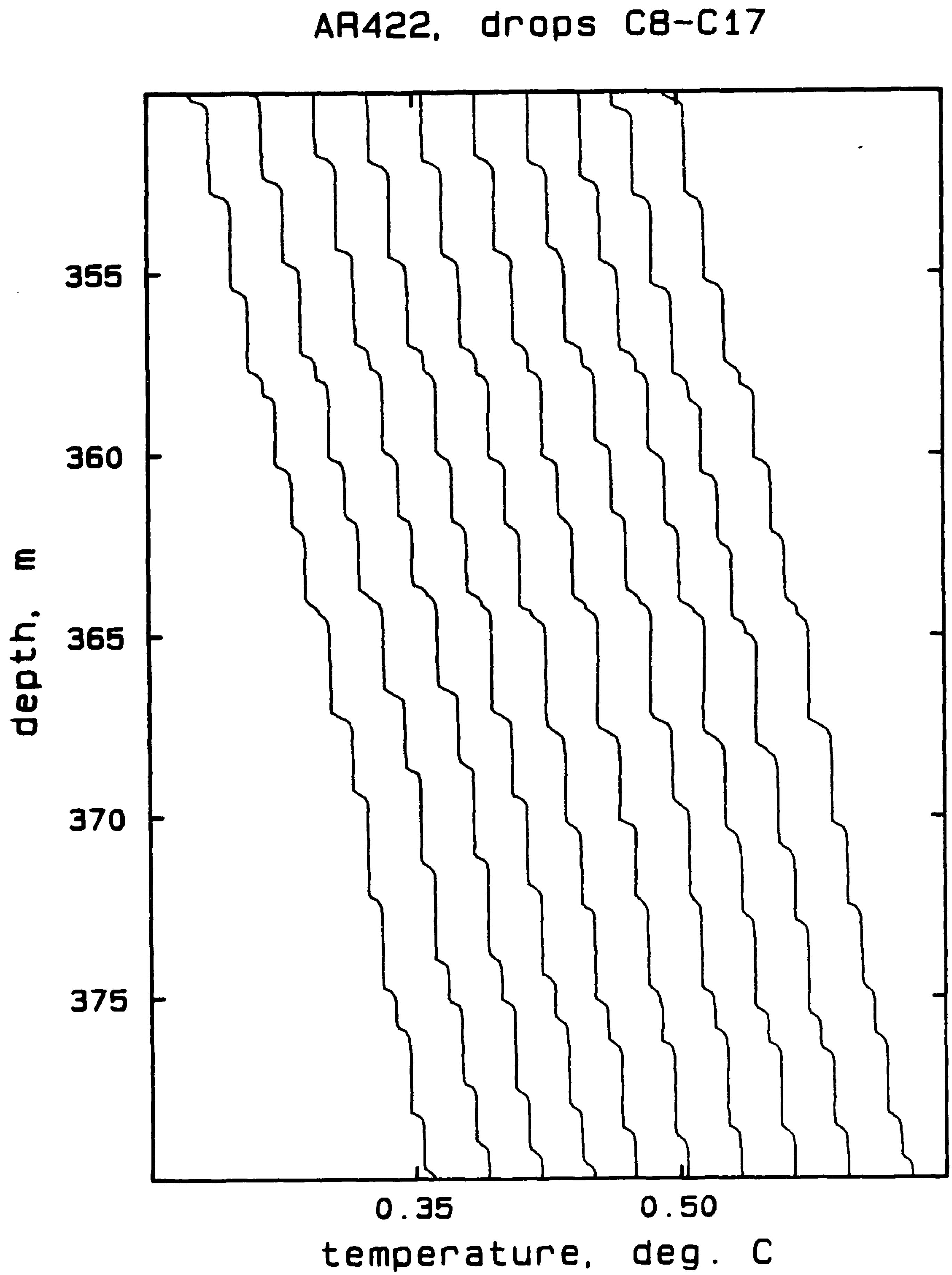

AR422, drops A1-A10
355
360
365
370
375
depth, m
0.35
0.50
temperature, deg. C

AR422, drops A11-B6

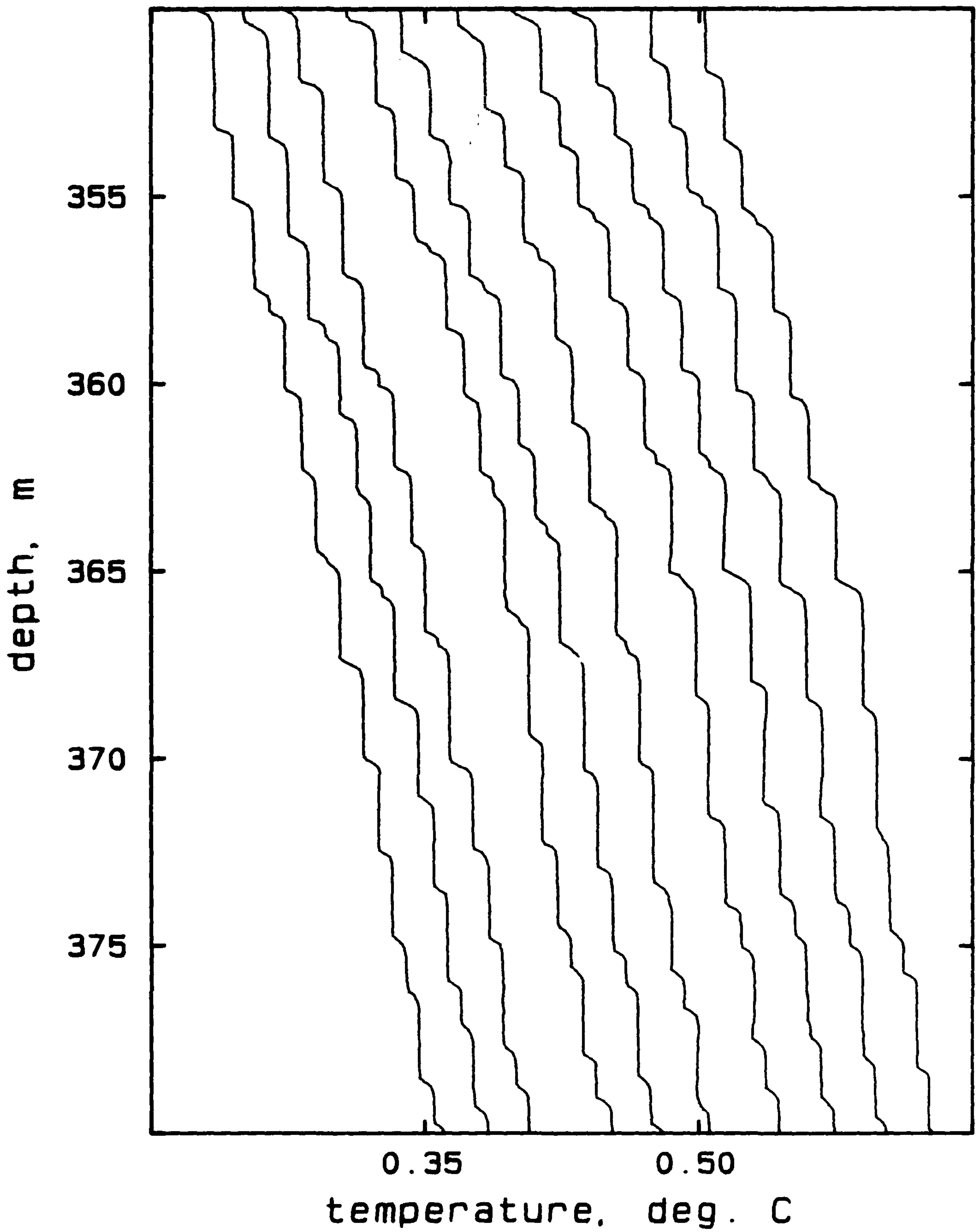


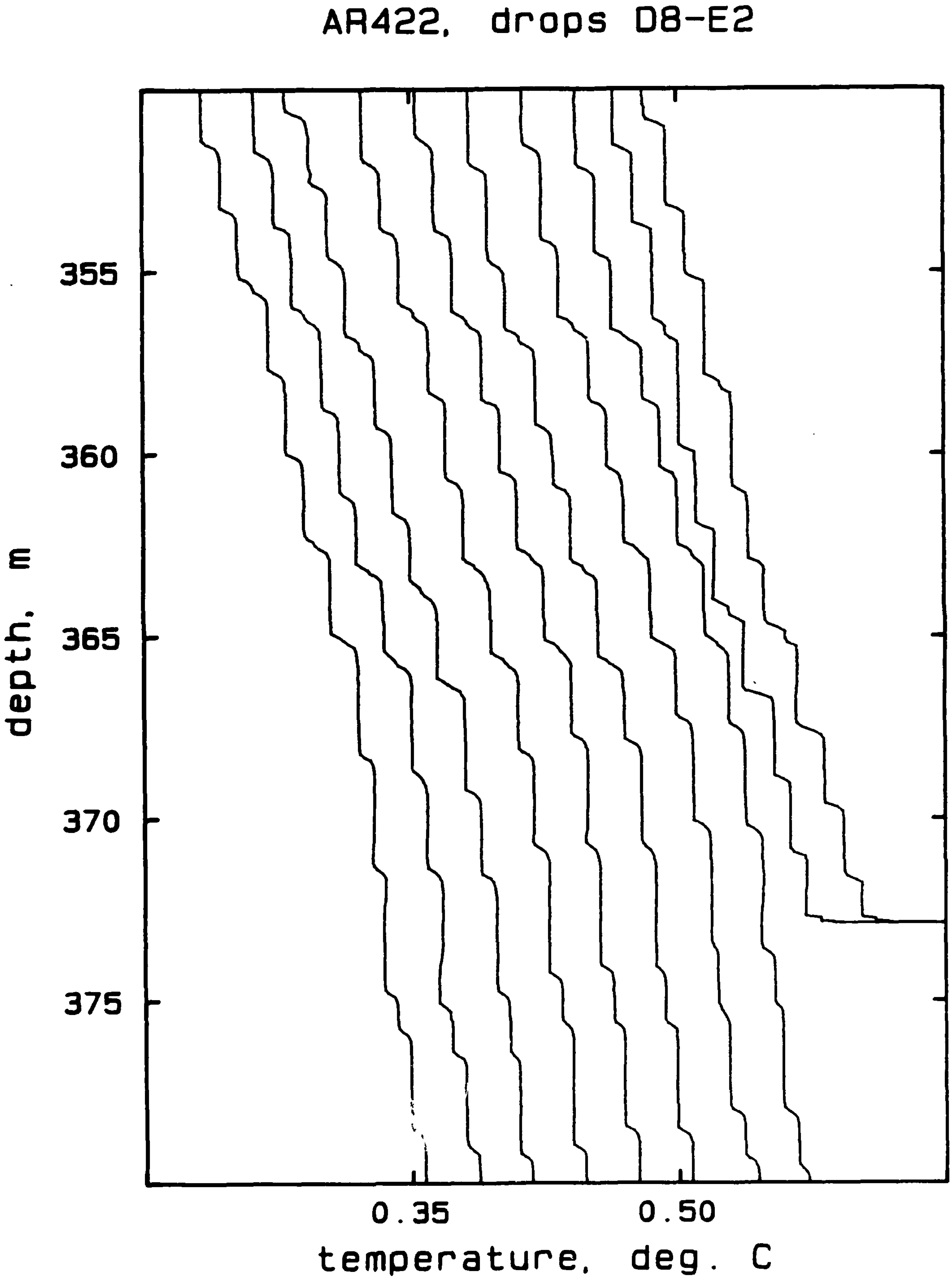
AR422, drops B7-C1

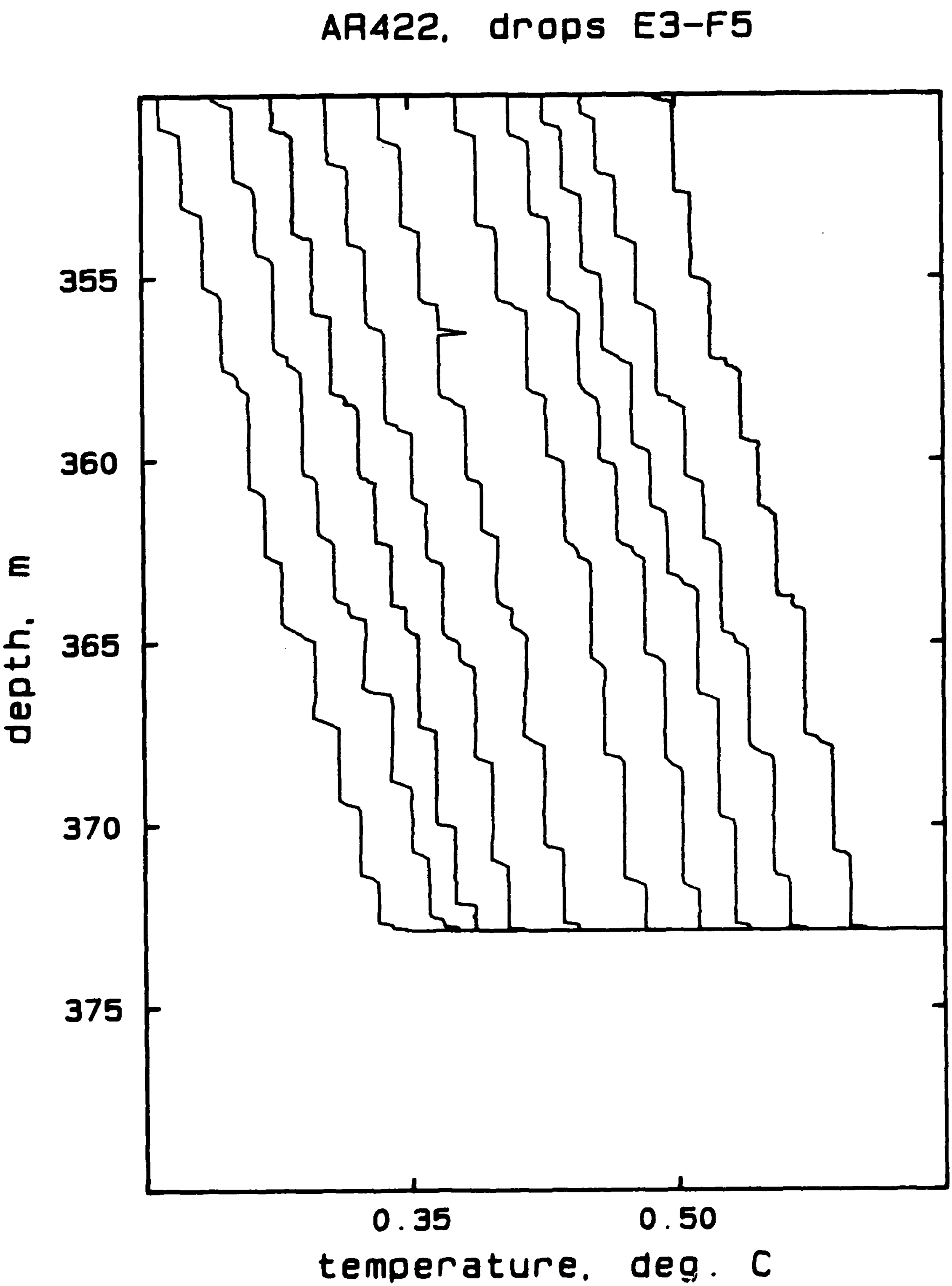



AR422, drops C8-C17
355
360
365
370
375
depth, m
0.35
0.50
temperature, deg. C

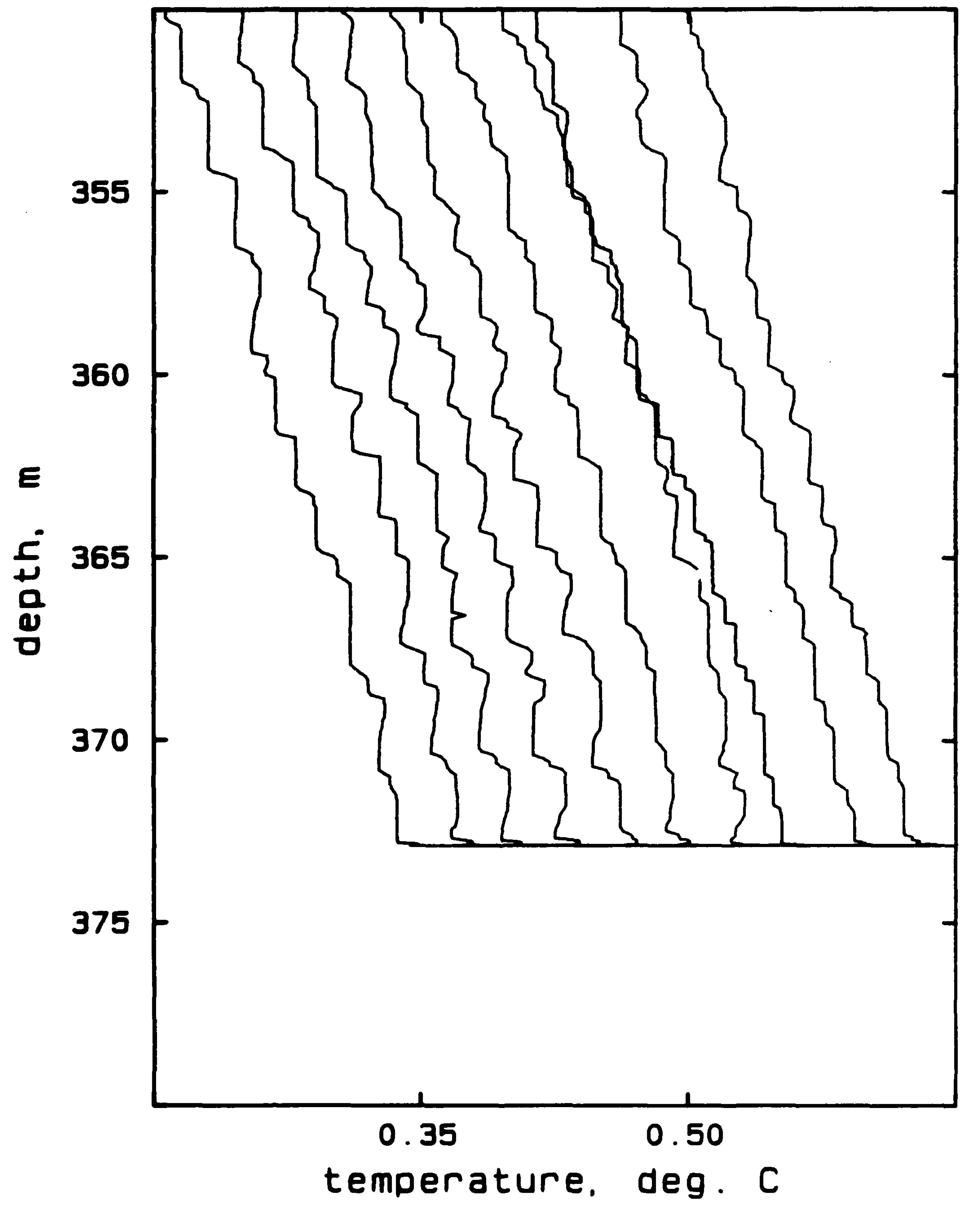
AR422, drops C18-D7

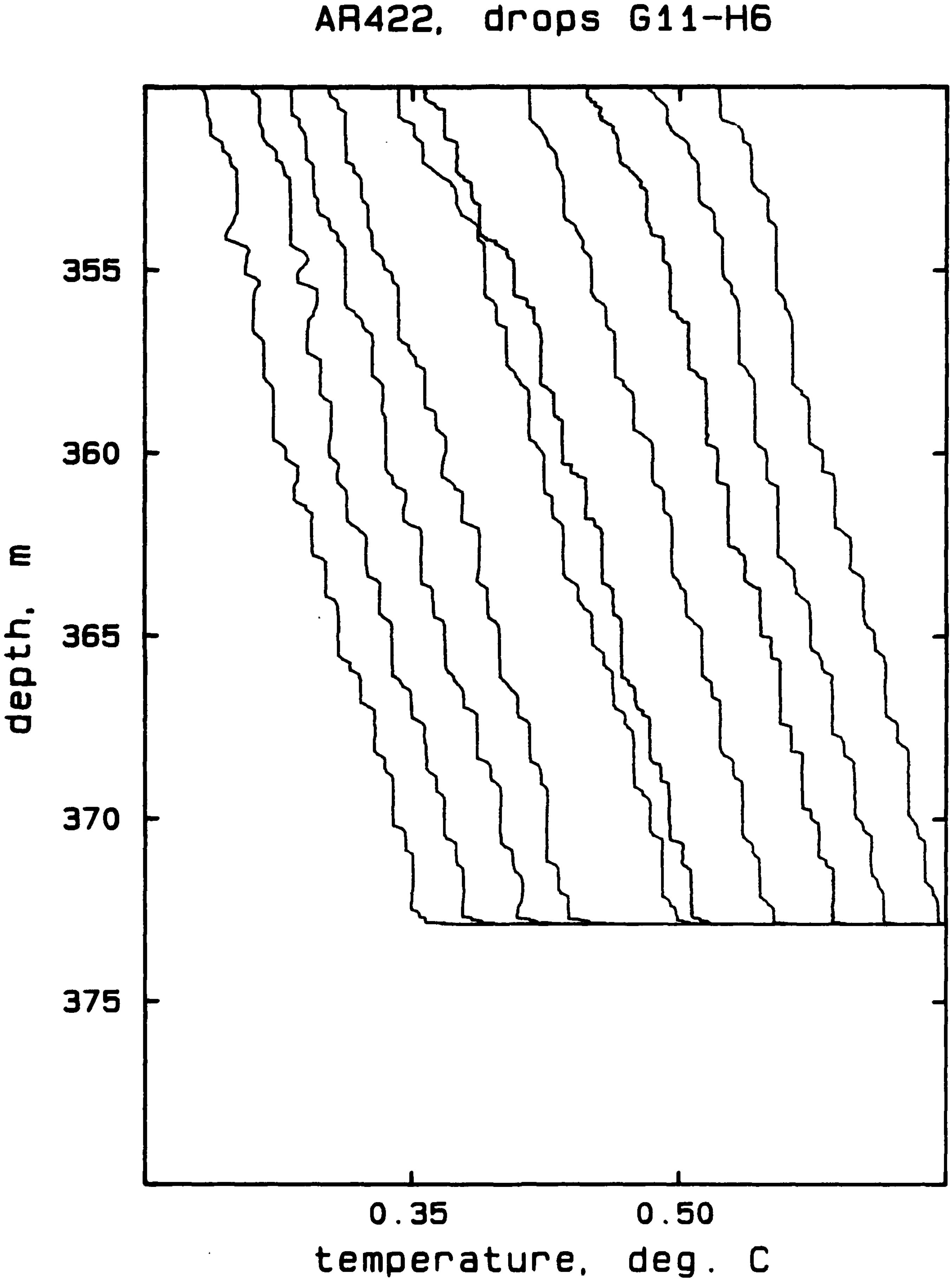



AR422, drops D8-E2
355
360
365
370
375
depth, m
0.35
0.50
temperature, deg. C

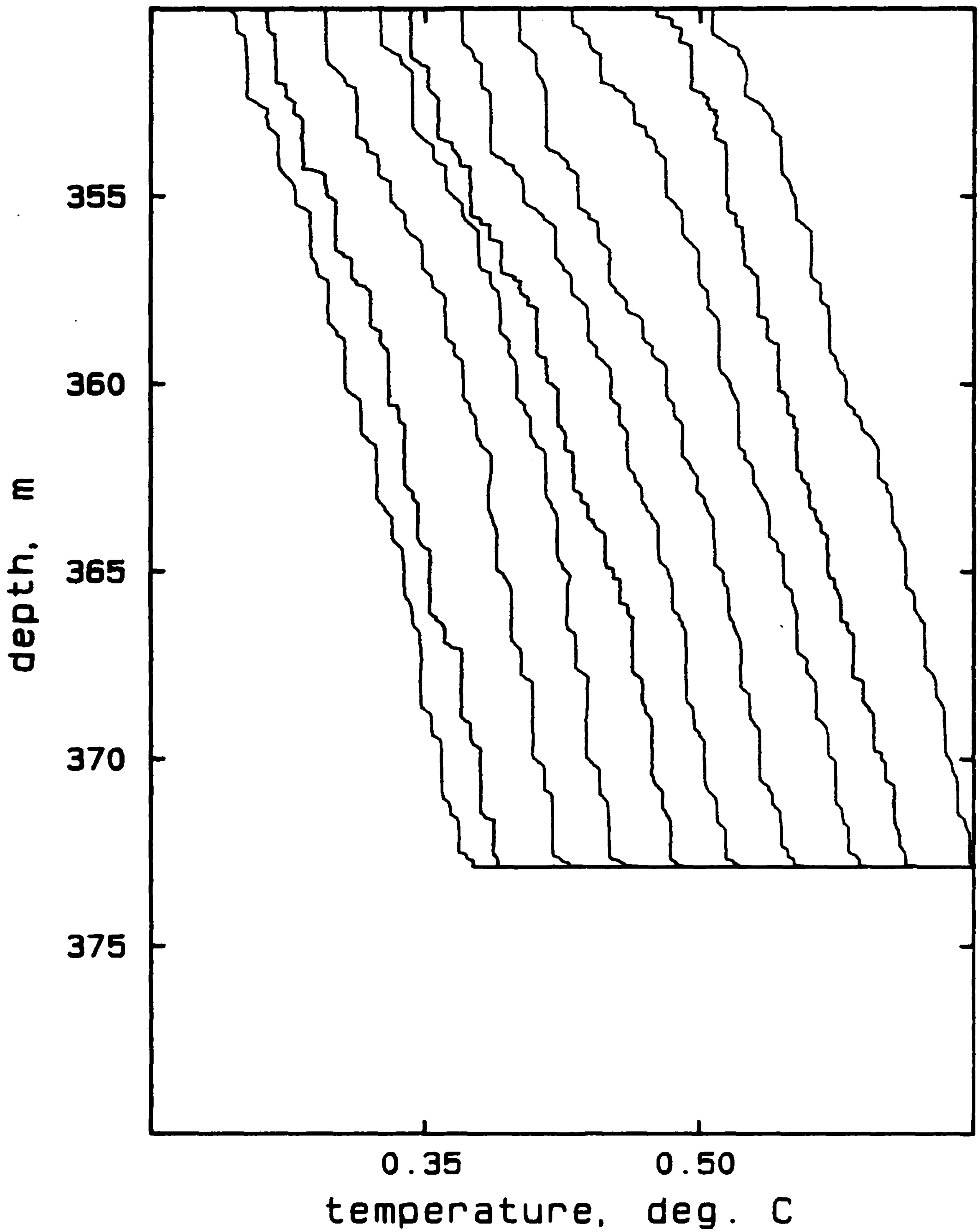

AR422, drops E3-F5
355
360
365
370
375
depth, m
0.35
0.50
temperature, deg. C

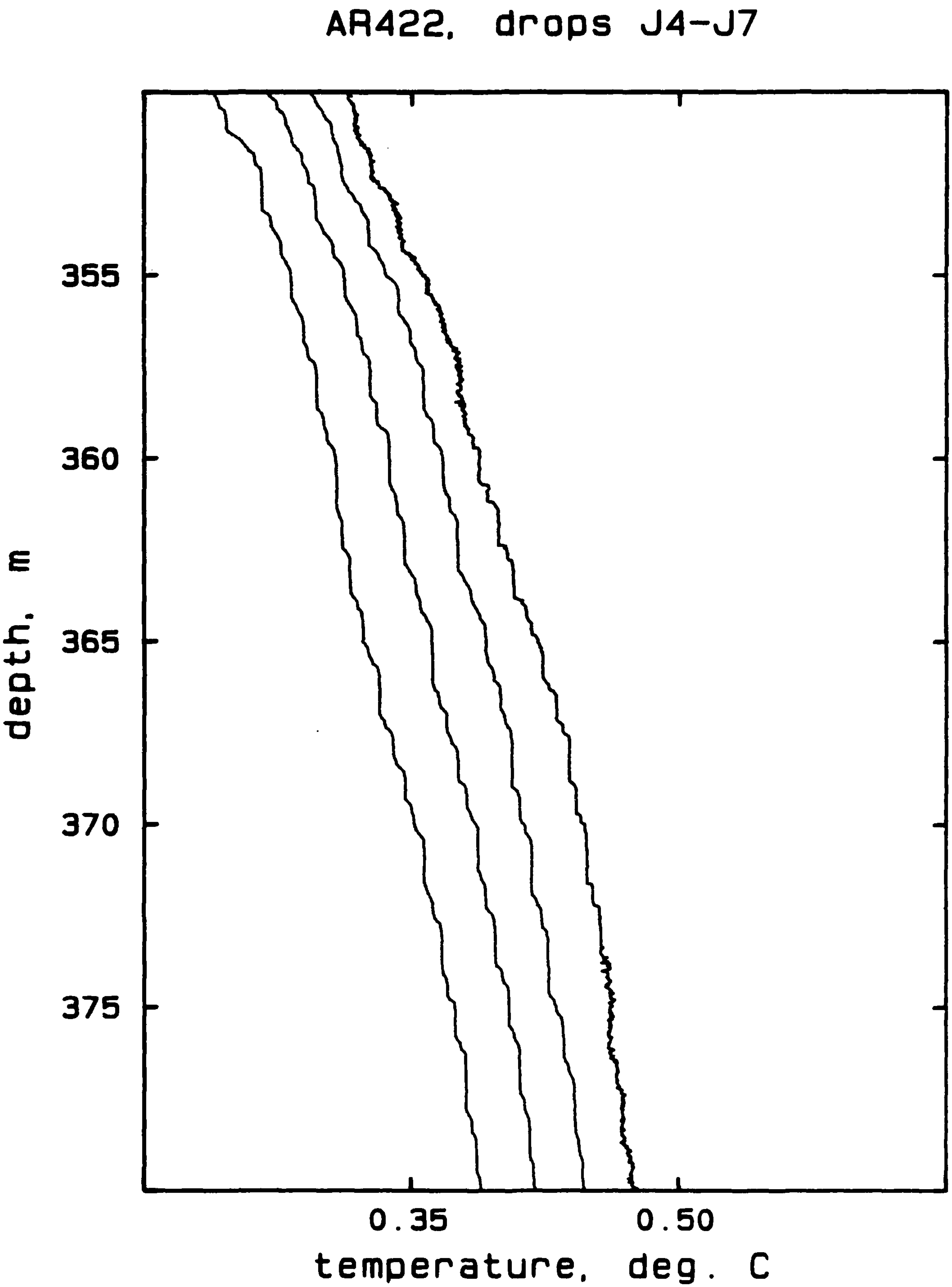
AR422, drops G1-G10



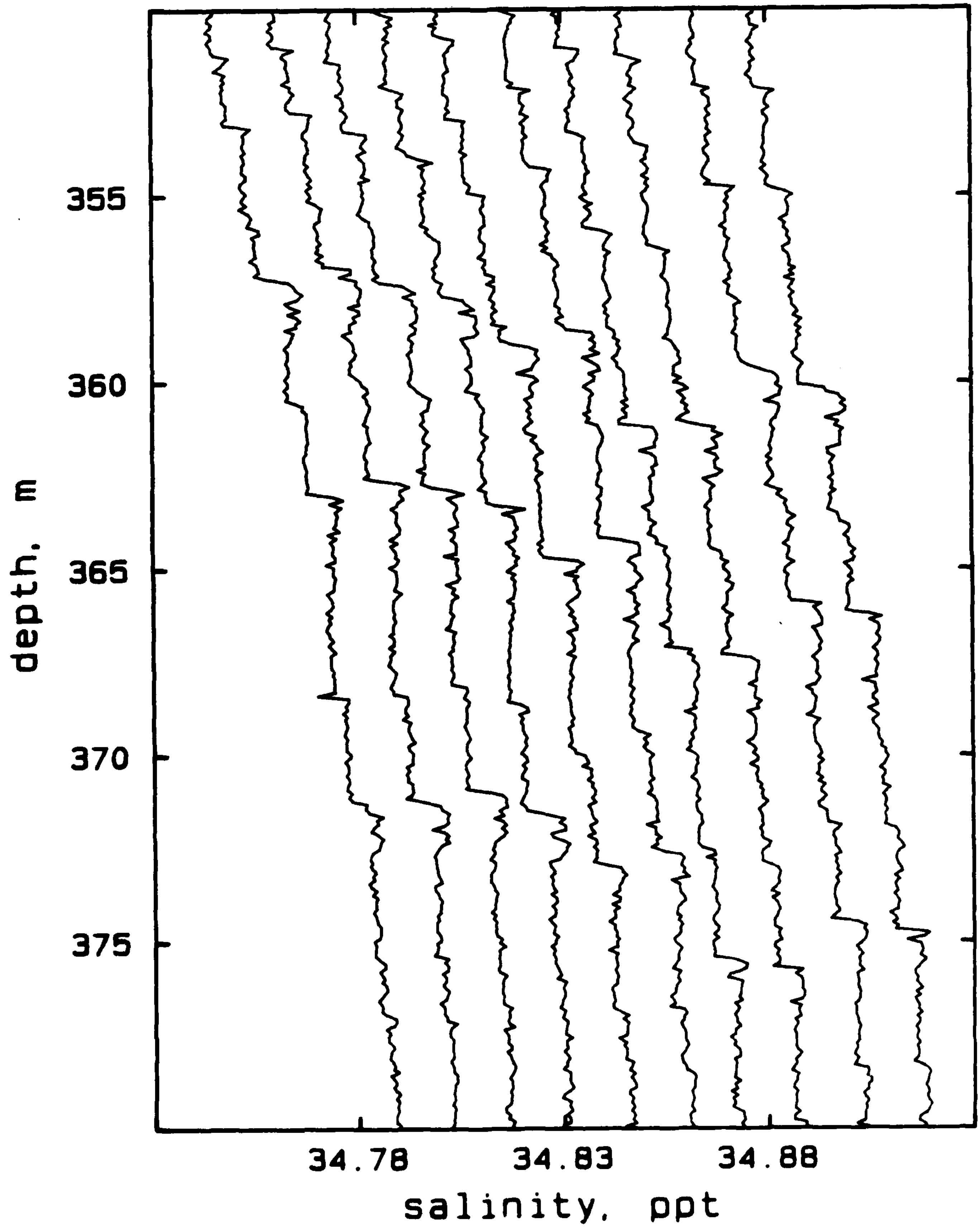

AR422, drops G11-H6
355
360
365
370
375
depth, m
0.35
0.50
temperature, deg. C

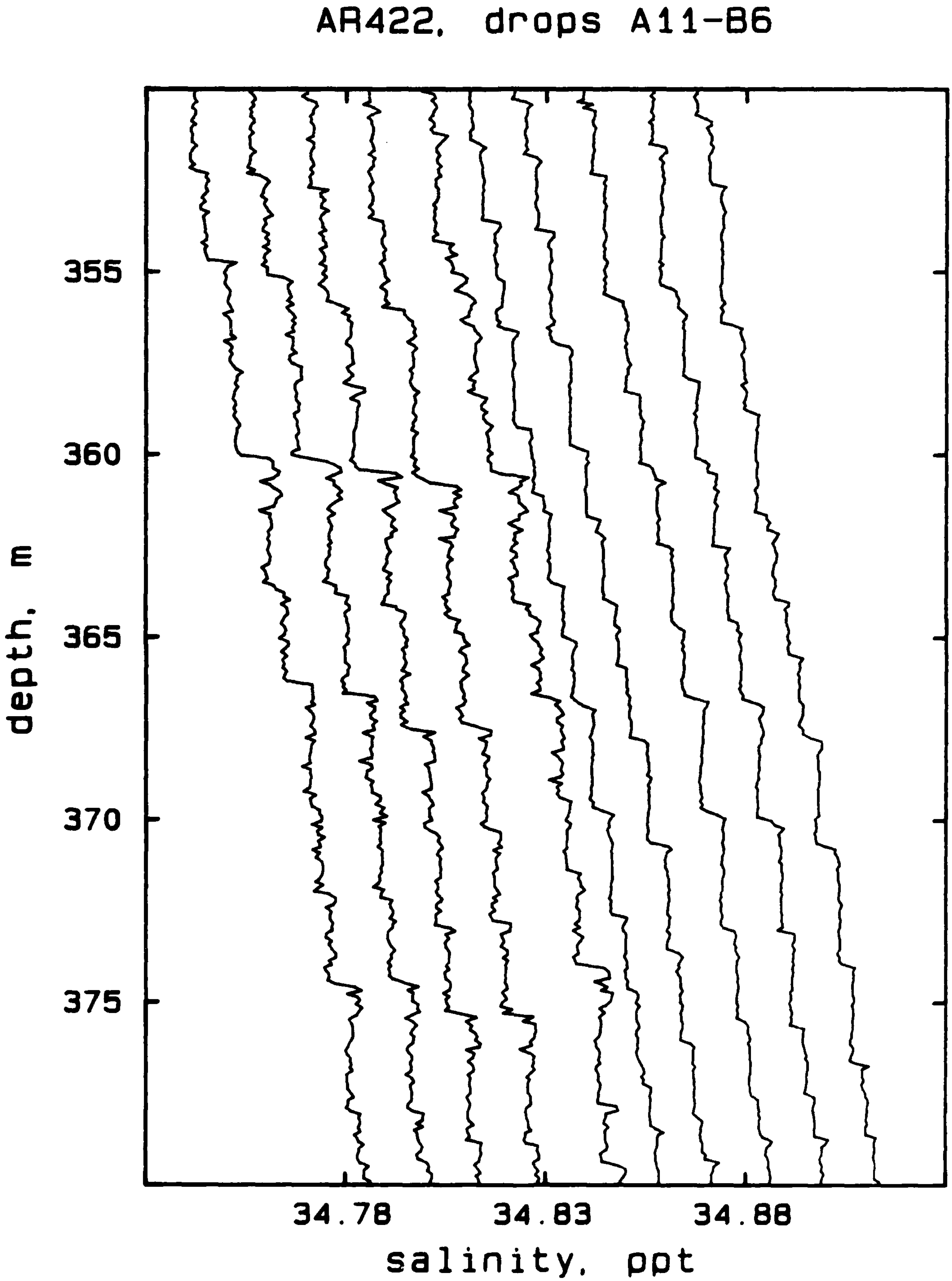
AR422, drops I1-J3

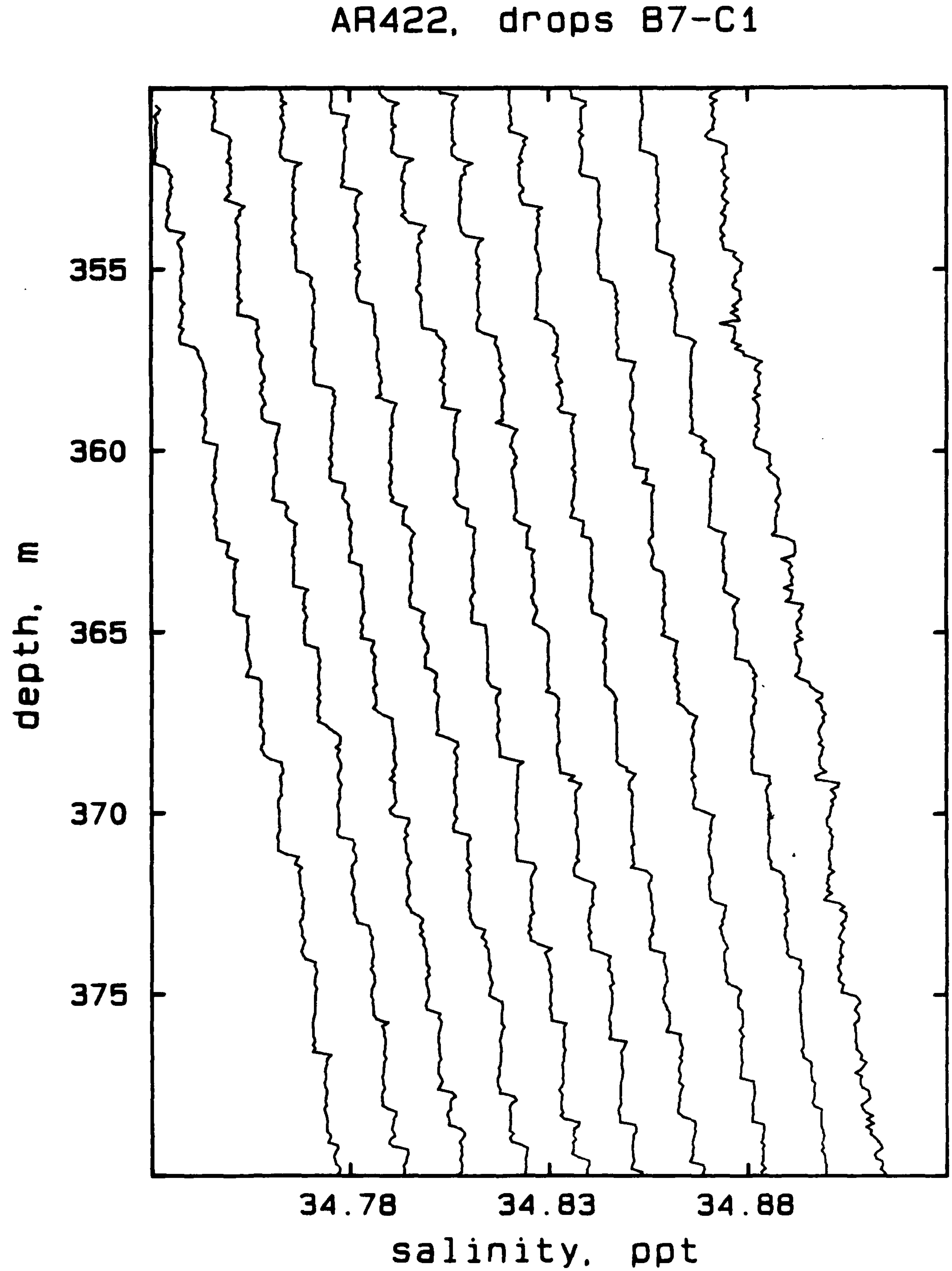


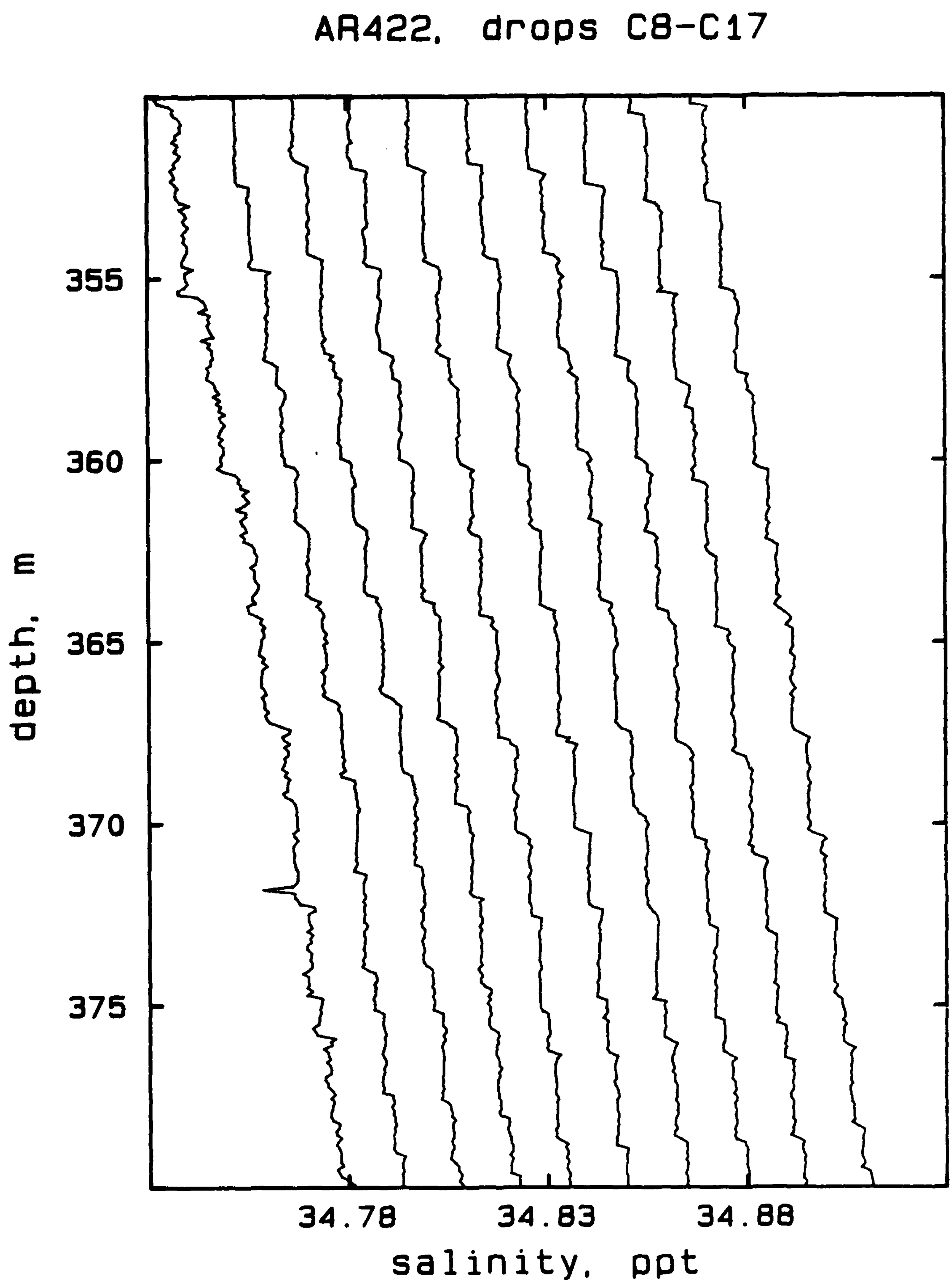

AR422, drops J4-J7
355
360
365
370
375
depth, m
0.35
0.50
temperature, deg. C

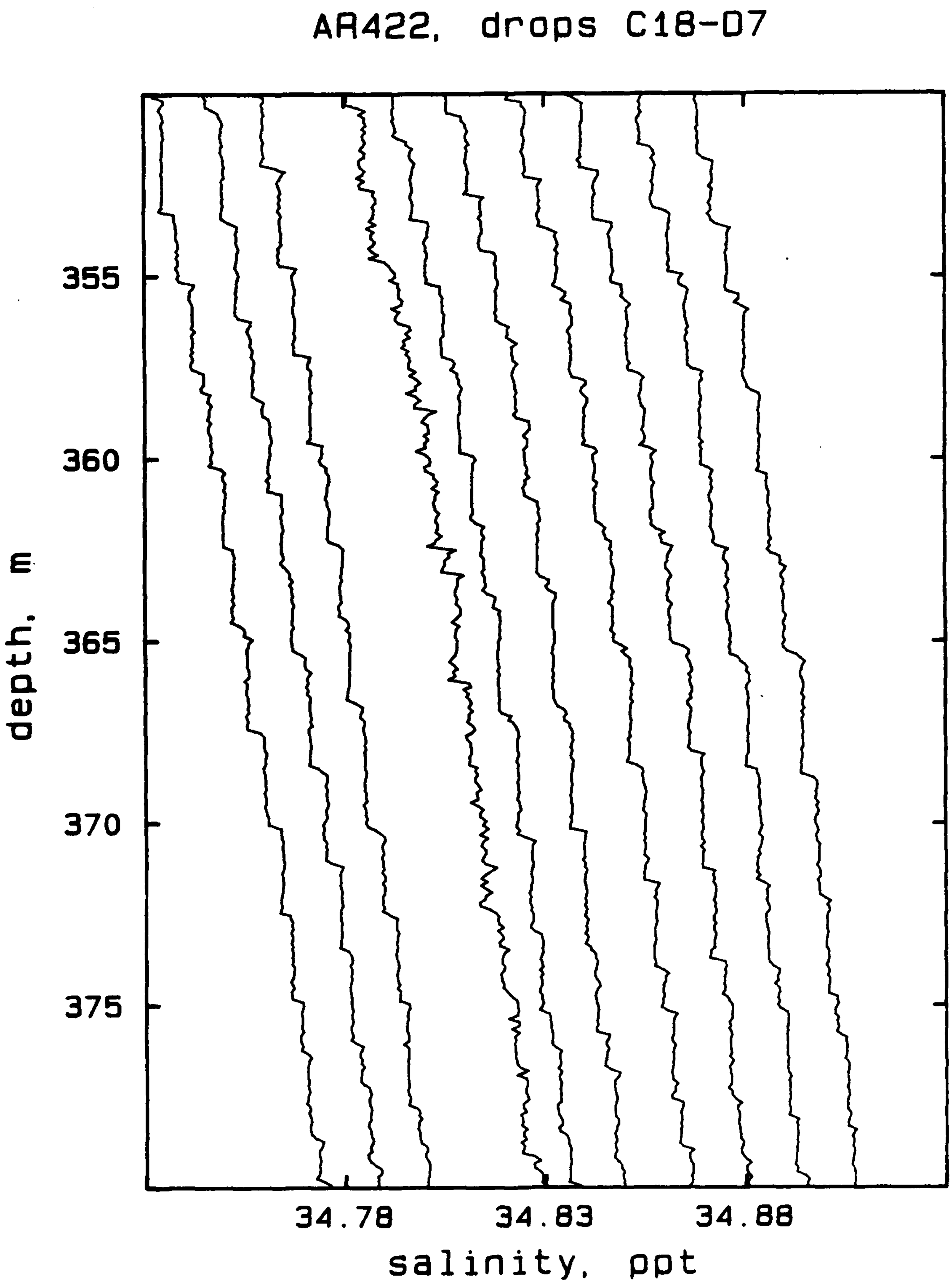
AR422, drops A1-A10



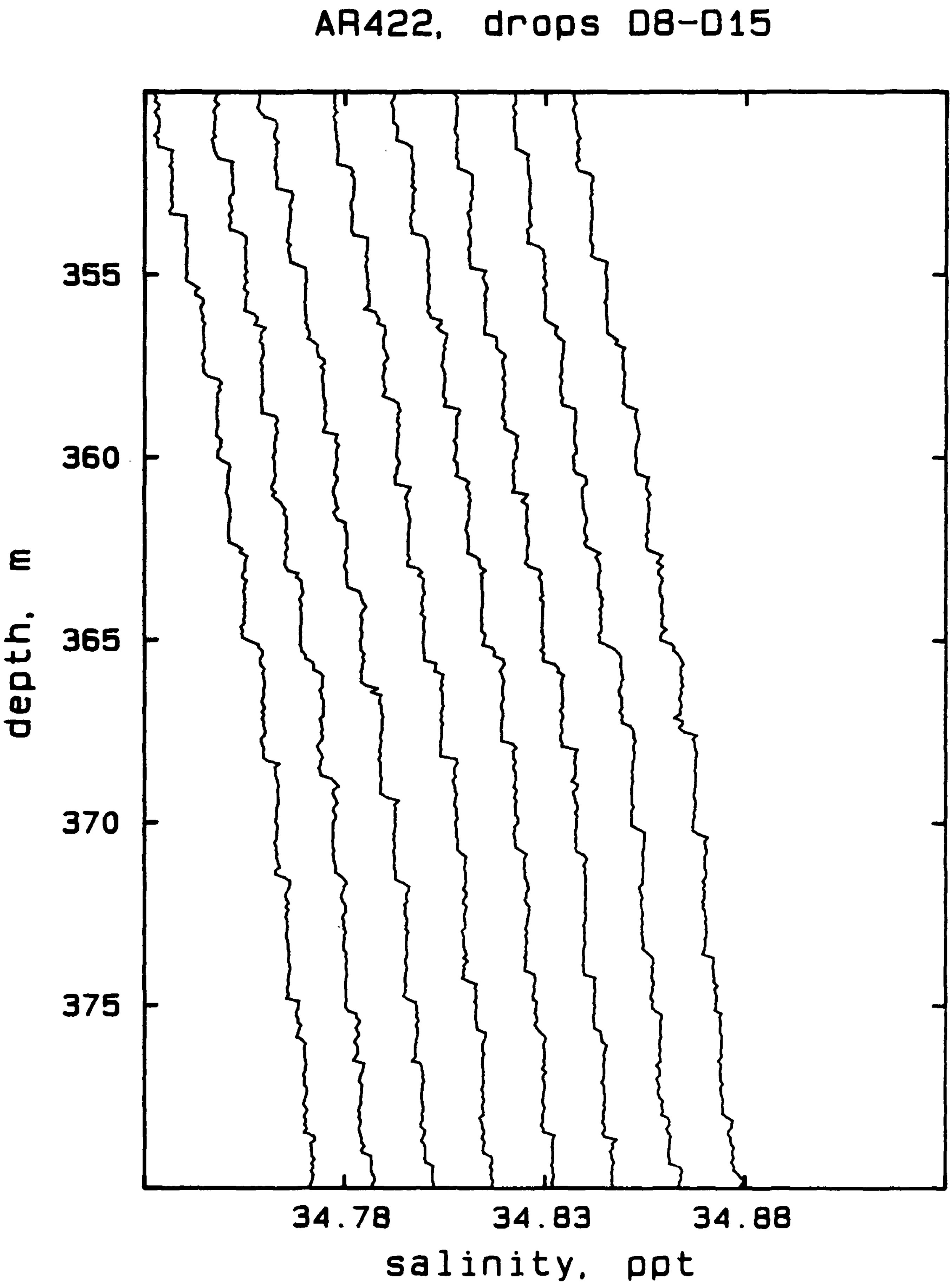

AR422, drops A11-B6
355
360
365
370
375
depth, m
34.78
34.83
34.88
salinity, ppt


AR422, drops B7-C1
355
360
365
370
375
depth, m
34.78
34.83
34.88
salinity, ppt


AR422, drops C8-C17
355
360
365
370
375
depth, m
34.78
34.83
34.88
salinity, ppt

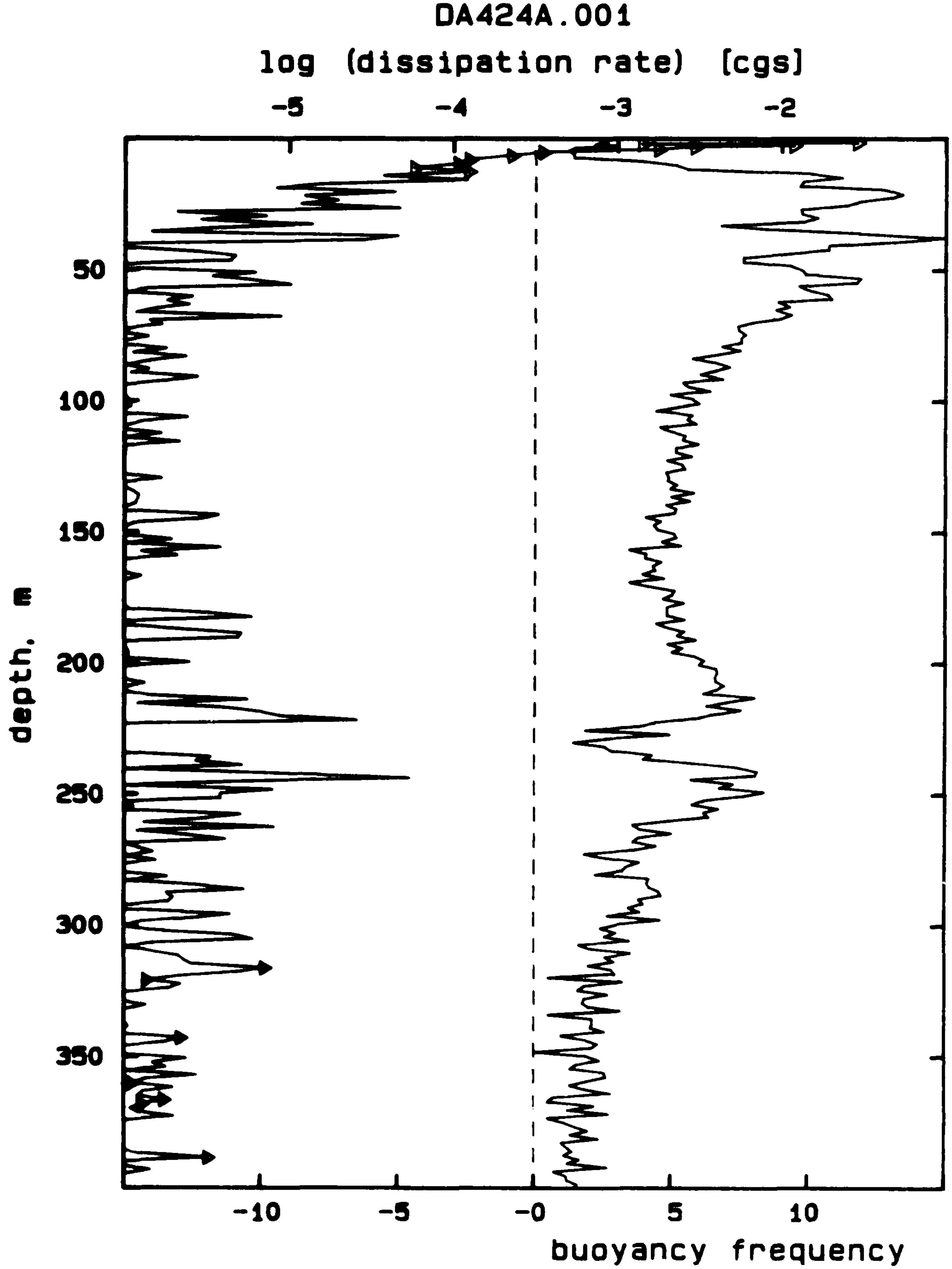


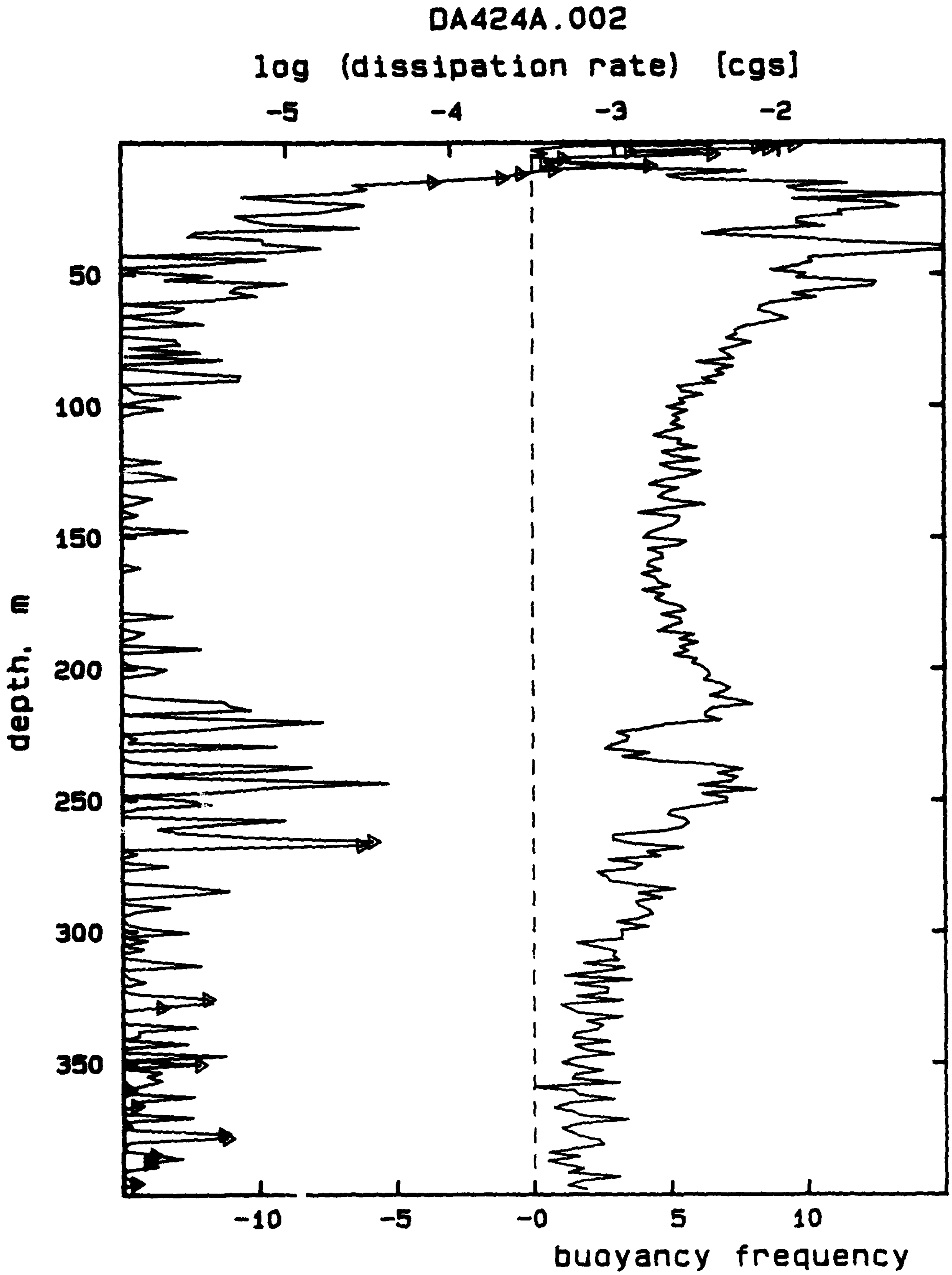
AR422, drops C18-D7
355
360
365
370
375
depth, m
34.78
34.83
34.88
salinity, ppt

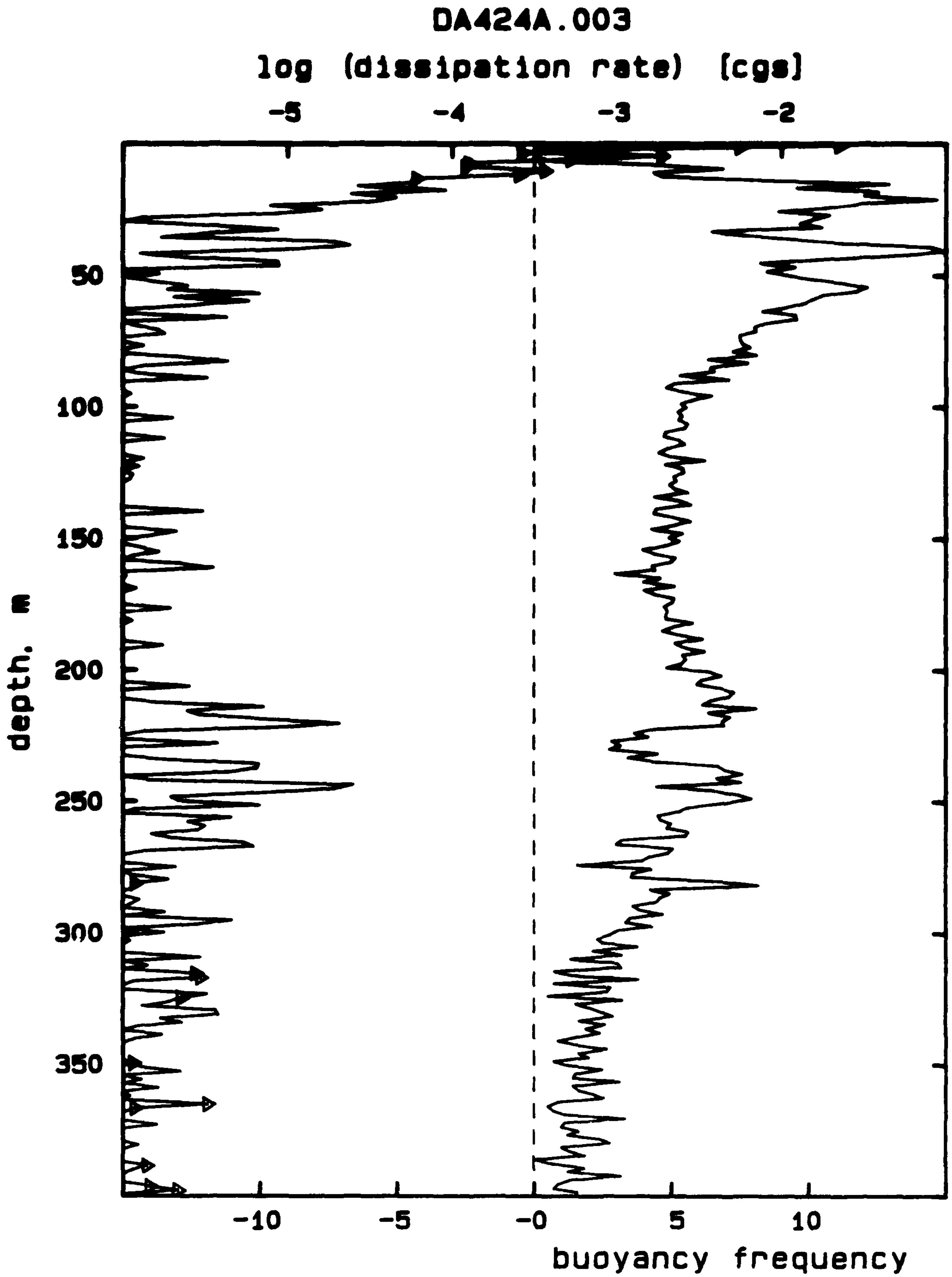

AR422, drops D8-D15
355
360
365
370
375
depth, m
34.78
34.83
34.88
salinity, ppt

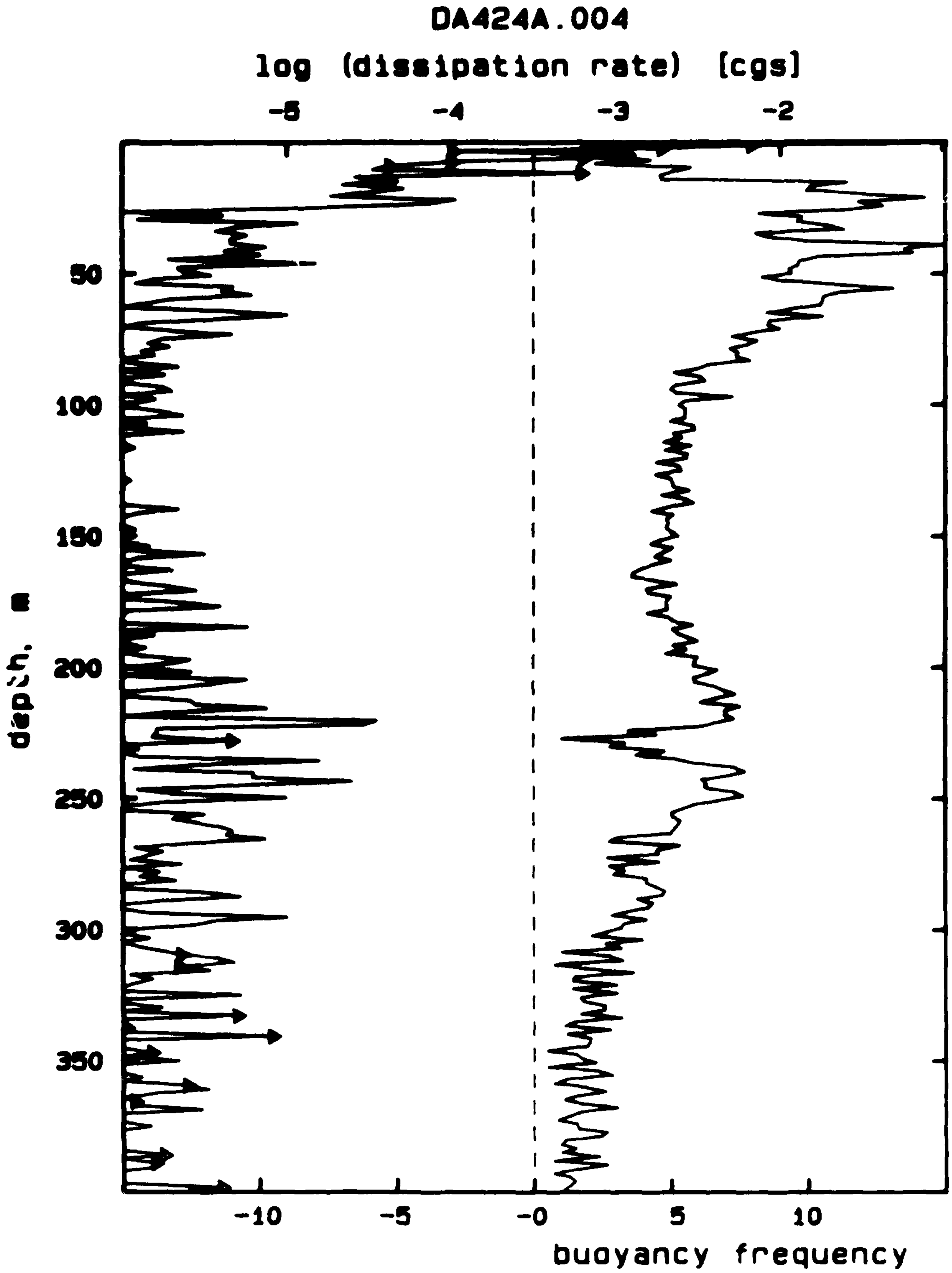
OBSERVATIONS:

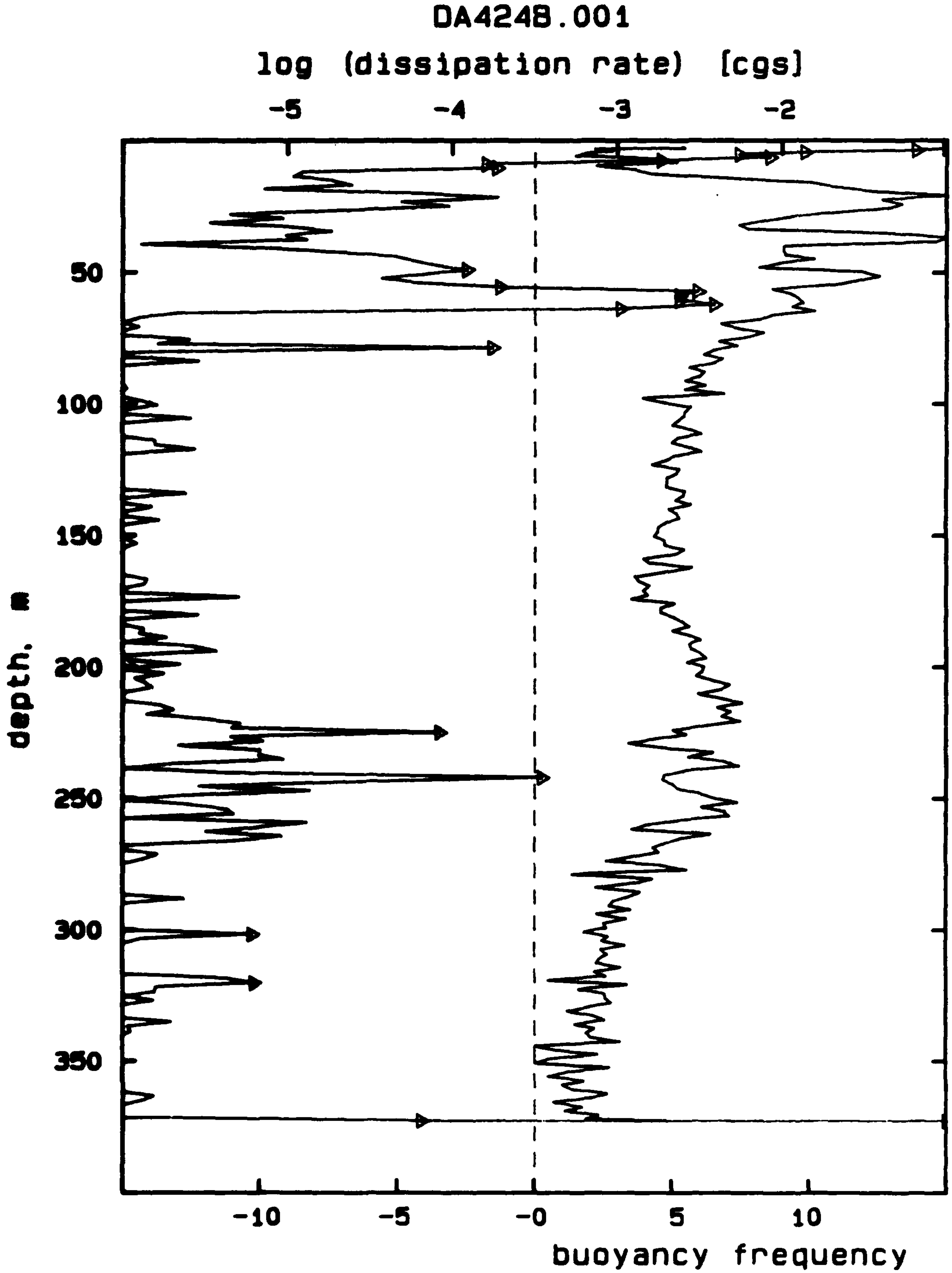
E. DISSIPATION RATES

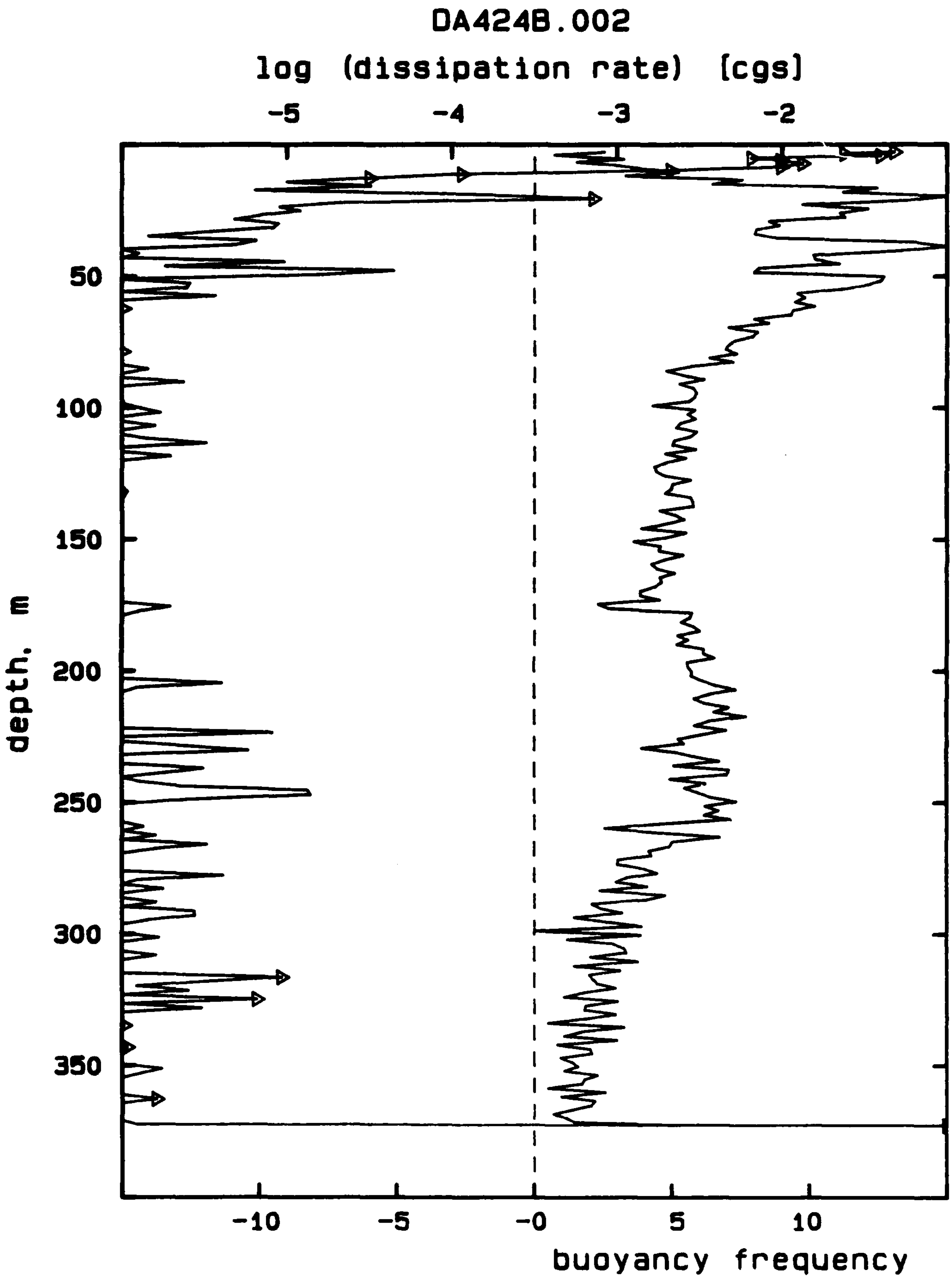

DA424A.001
log (dissipation rate) [cgs]
-5
-4
-3
-2
50
100
150
200
250
300
350
depth, m
-10
-5
-0
5
10
buoyancy frequency

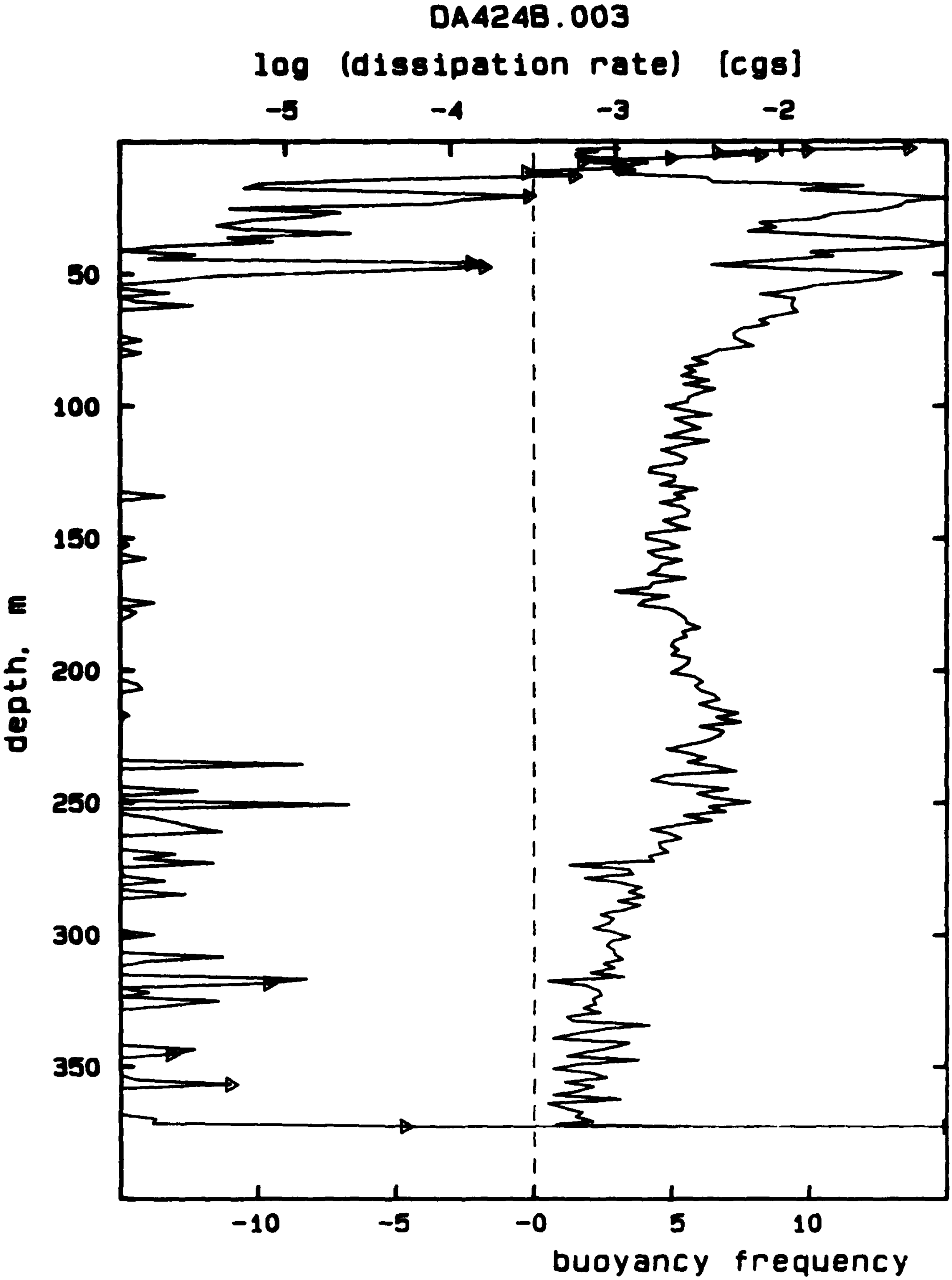

DA424A.002
log (dissipation rate) [cgs]
-5
-4
-3
-2
depth, m
50
100
150
200
250
300
350
-10
-5
-0
5
10
buoyancy frequency

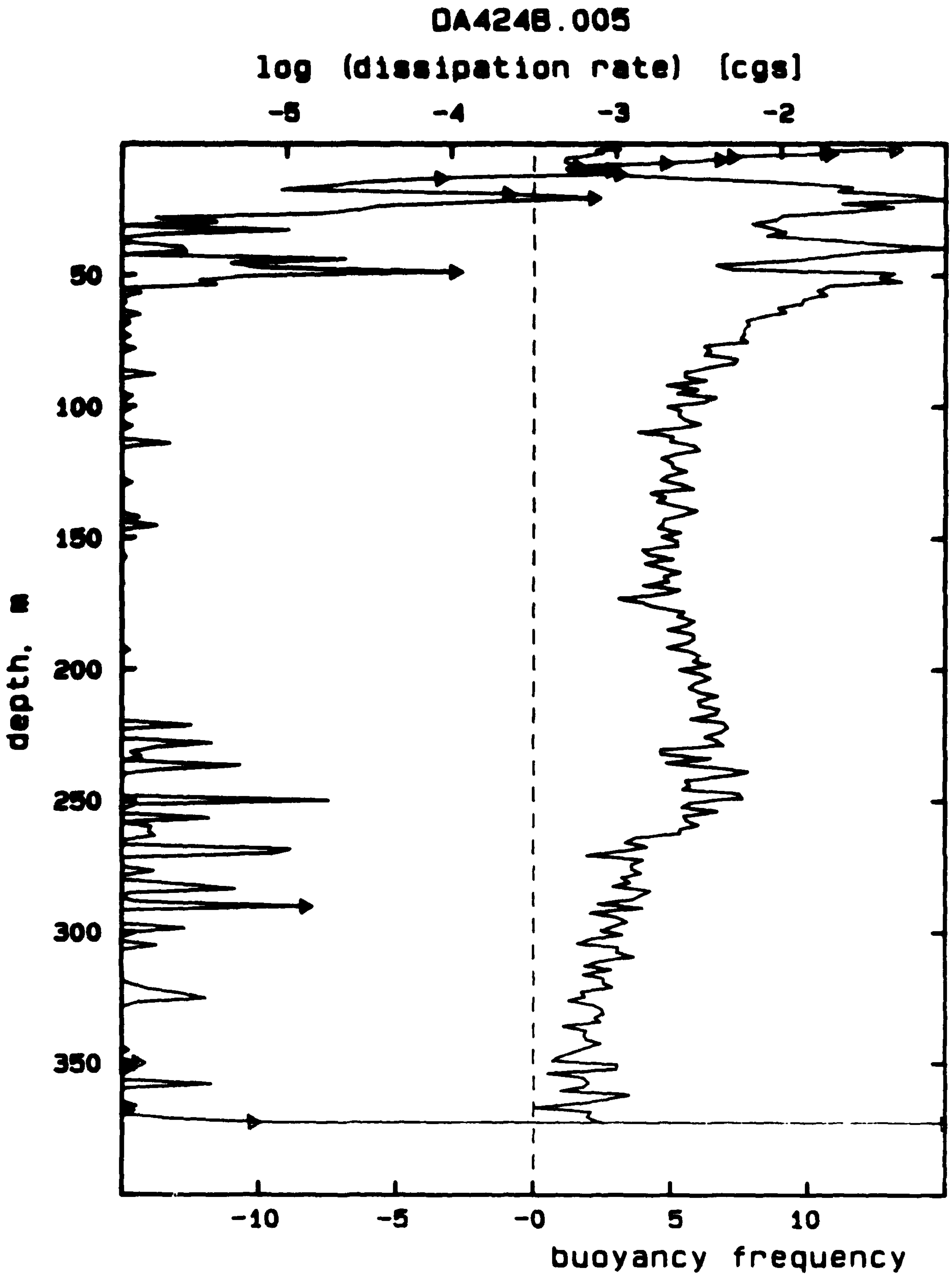

DA424A.003
log (dissipation rate) [cgs]
-5
-4
-3
-2
depth, m
50
100
150
200
250
300
350
-10
-5
-0
5
10
buoyancy frequency

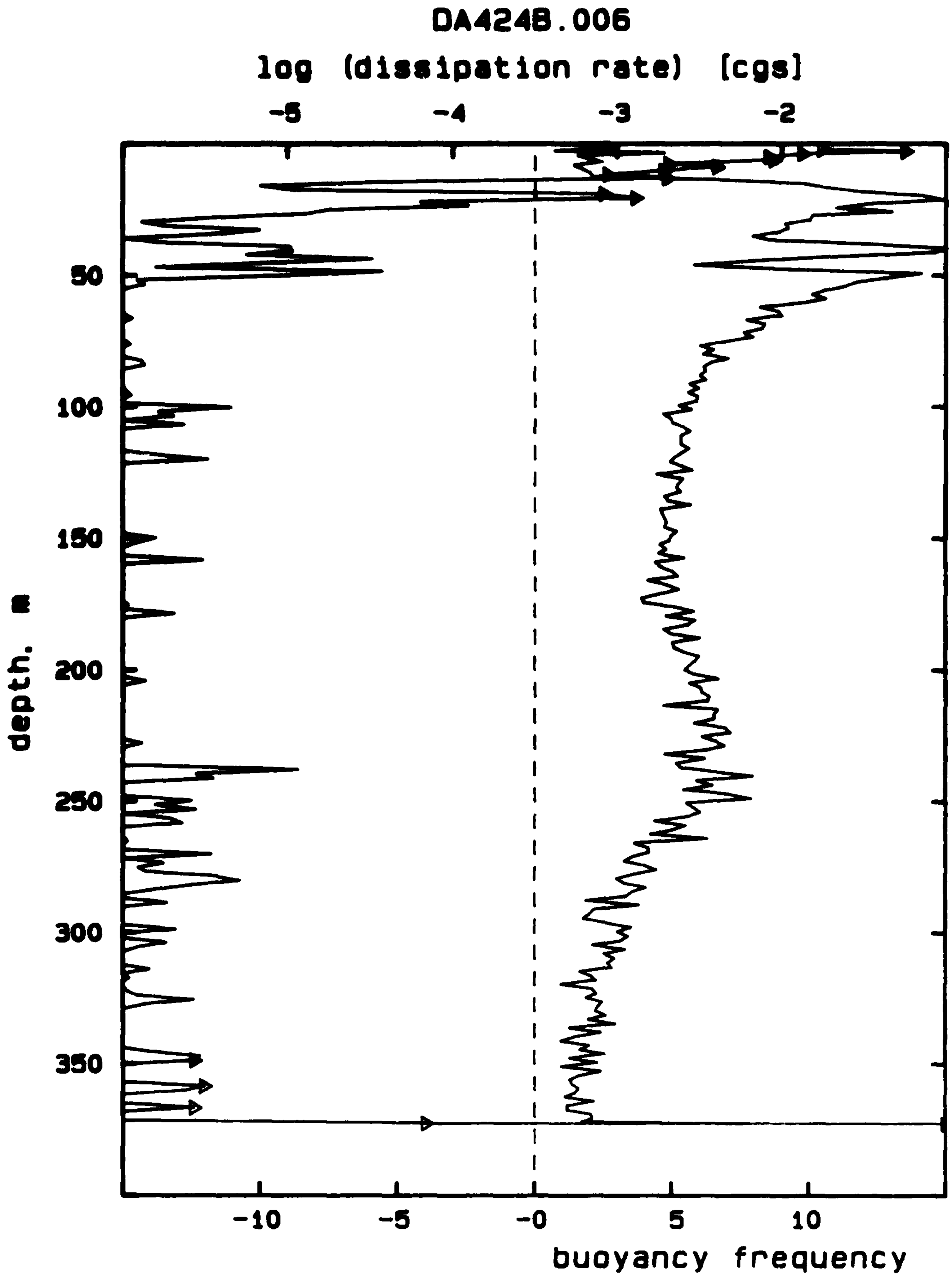

DA424A.004
log (dissipation rate) [cgs]
-5
-4
-3
-2
depth, m
50
100
150
200
250
300
350
-10
-5
-0
5
10
buoyancy frequency

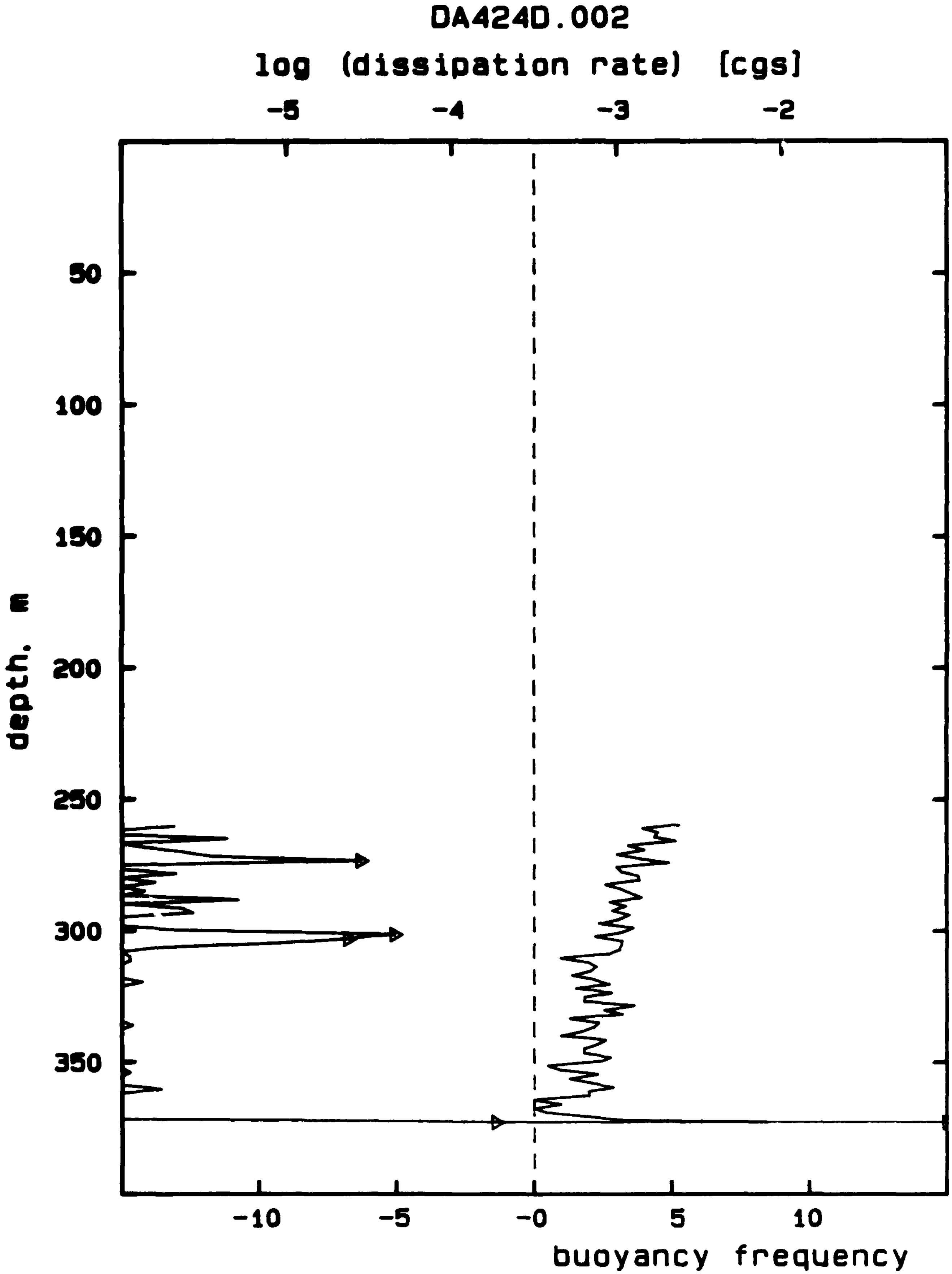

DA4248.001
log (dissipation rate) [cgs]
-5
-4
-3
-2
depth. m
50
100
150
200
250
300
350
-10
-5
-0
5
10
buoyancy frequency

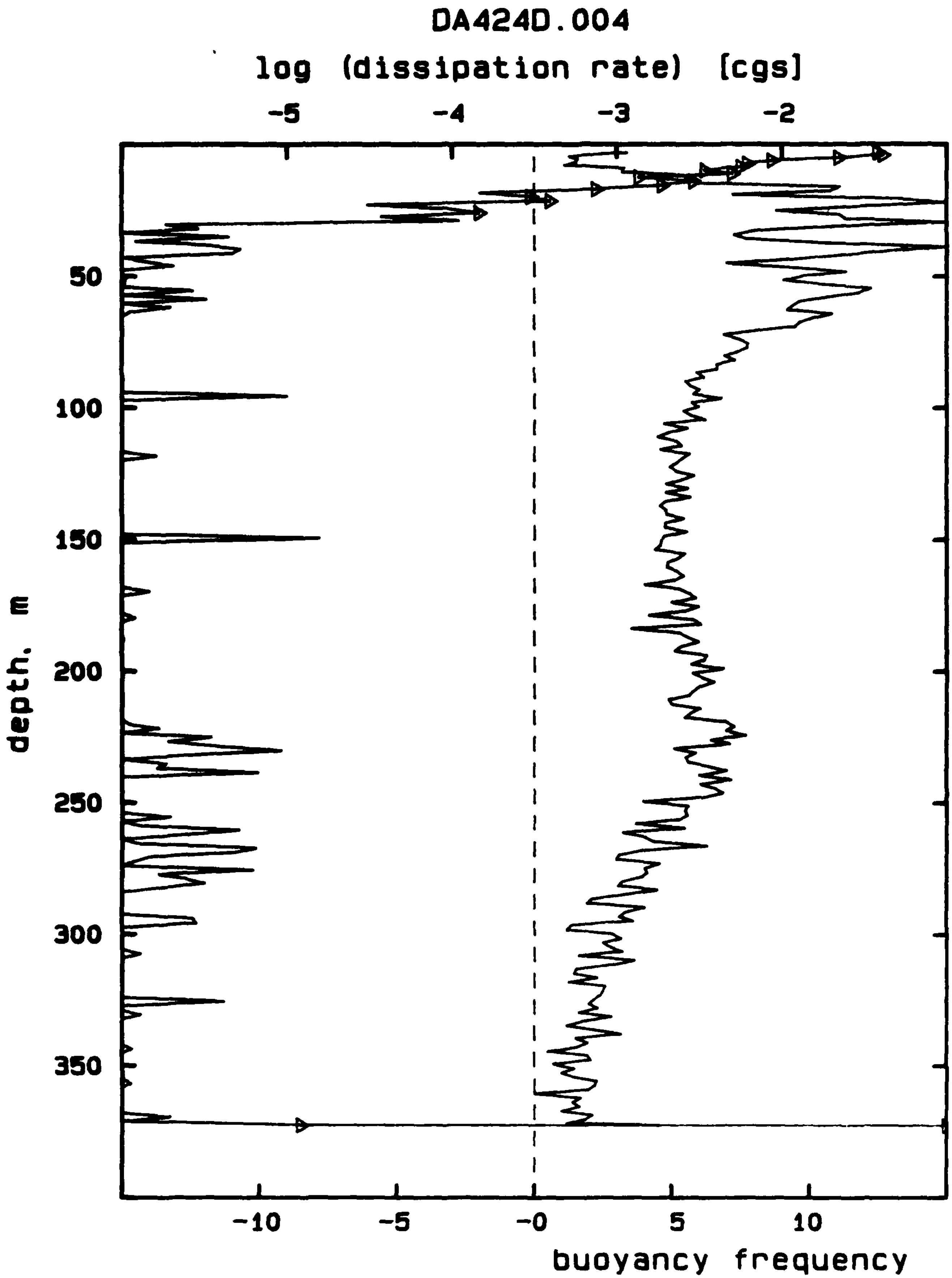

DA424B.002
log (dissipation rate) [cgs]
-5
-4
-3
-2
depth, m
50
100
150
200
250
300
350
-10
-5
-0
5
10
buoyancy frequency

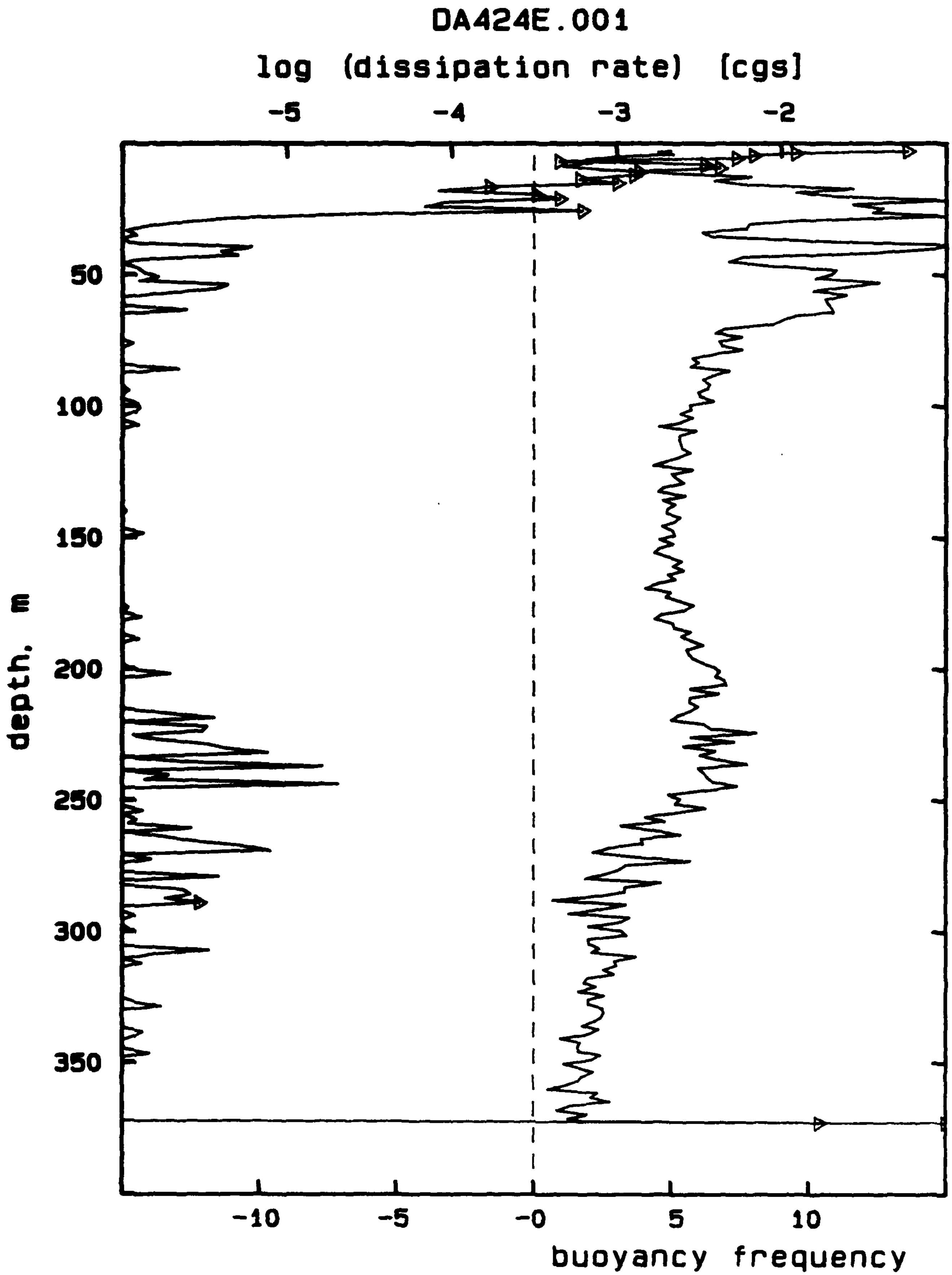

DA424B.003
log (dissipation rate) [cgs]
-5
-4
-3
-2
depth, m
50
100
150
200
250
300
350
-10
-5
-0
5
10
buoyancy frequency

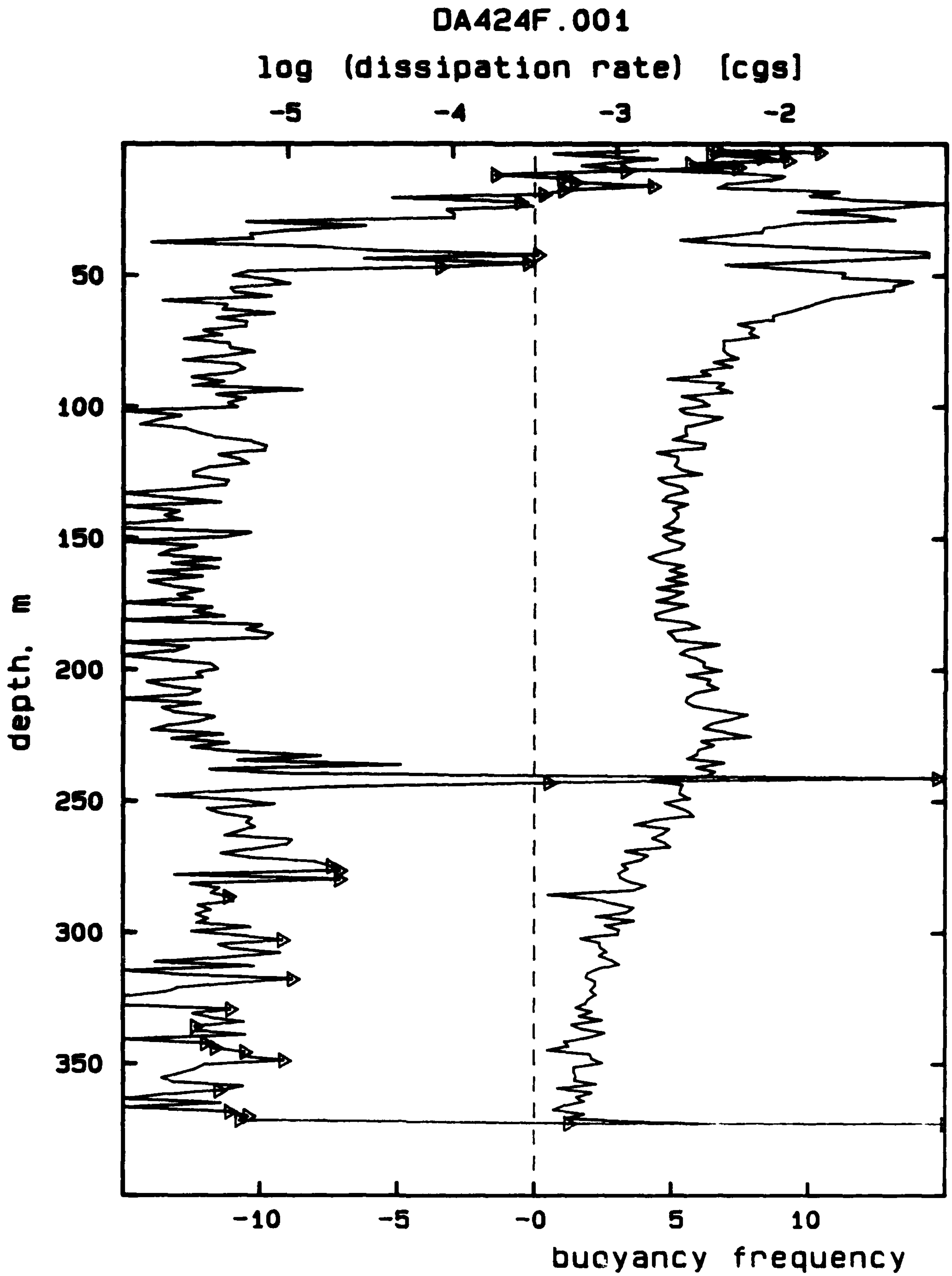

DA424B.005
log (dissipation rate) [cgs]
-5
-4
-3
-2
50
100
150
200
250
300
350
depth, m
-10
-5
-0
5
10
buoyancy frequency

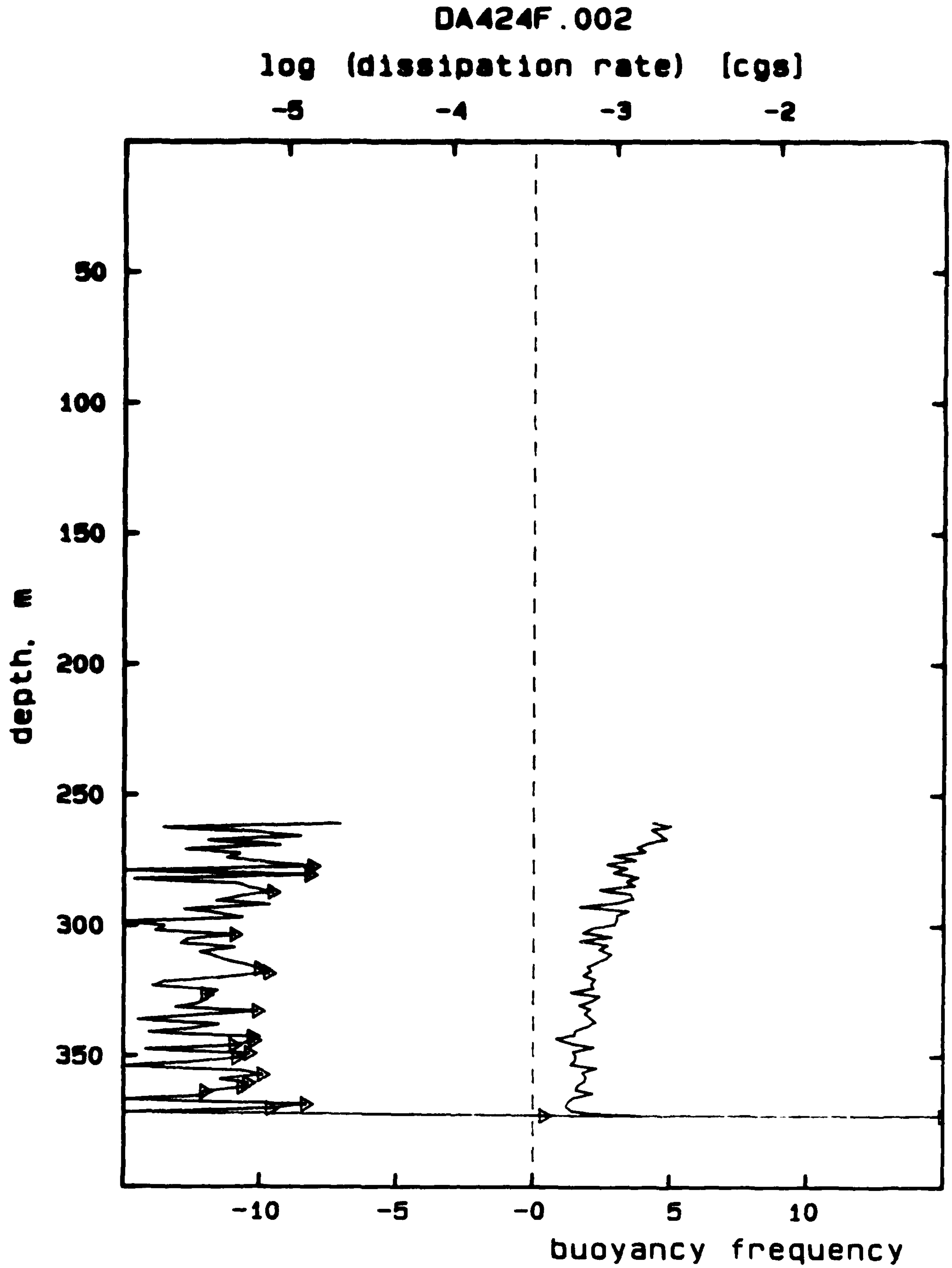

DA424B.006
log (dissipation rate) [cgs]
-5
-4
-3
-2
depth, m
50
100
150
200
250
300
350
-10
-5
-0
5
10
buoyancy frequency

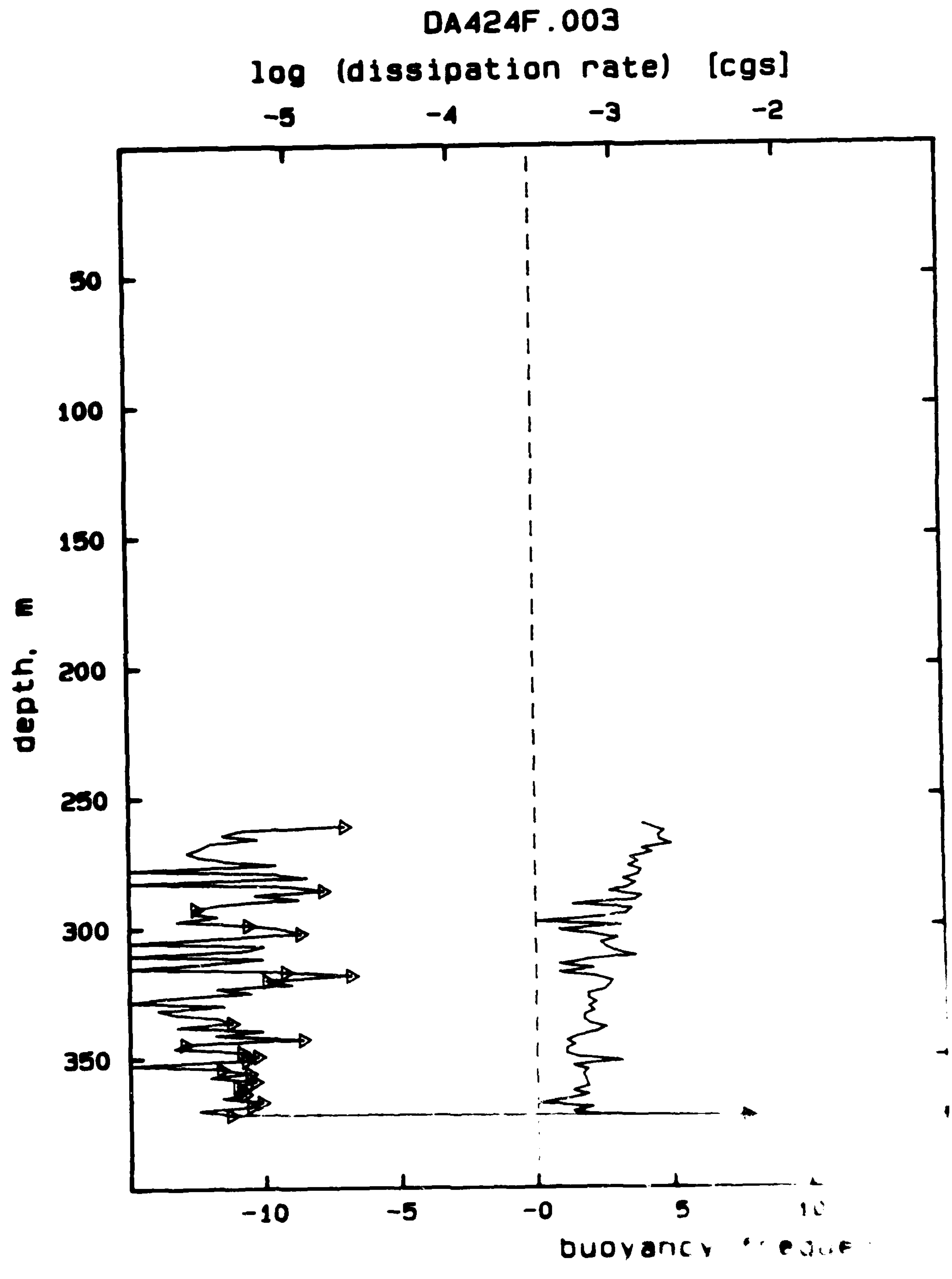

DA424D.002
log (dissipation rate) [cgs]
-5
-4
-3
-2
50
100
150
200
250
300
350
depth. m
-10
-5
-0
5
10
buoyancy frequency


DA424D.004
log (dissipation rate) [cgs]
-5
-4
-3
-2
depth, m
50
100
150
200
250
300
350
-10
-5
-0
5
10
buoyancy frequency

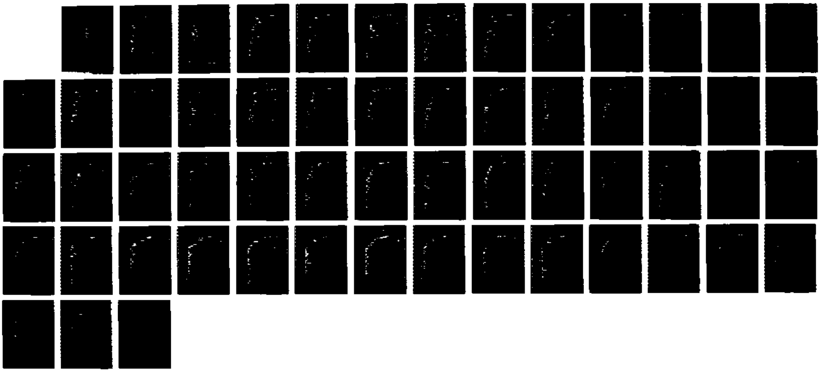

DA424E.001
log (dissipation rate) [cgs]
-5
-4
-3
-2
depth, m
50
100
150
200
250
300
350
-10
-5
-0
5
10
buoyancy frequency

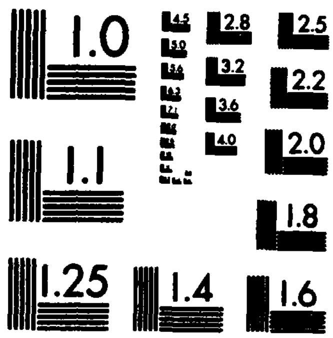

DA424F.001
log (dissipation rate) [cgs]
-5
-4
-3
-2
50
100
150
200
250
300
350
depth, m
-10
-5
-0
5
10
buoyancy frequency


DA424F.002
log (dissipation rate) [cgs]
-5
-4
-3
-2
50
100
150
200
250
300
350
depth, m
-10
-5
-0
5
10
buoyancy frequency

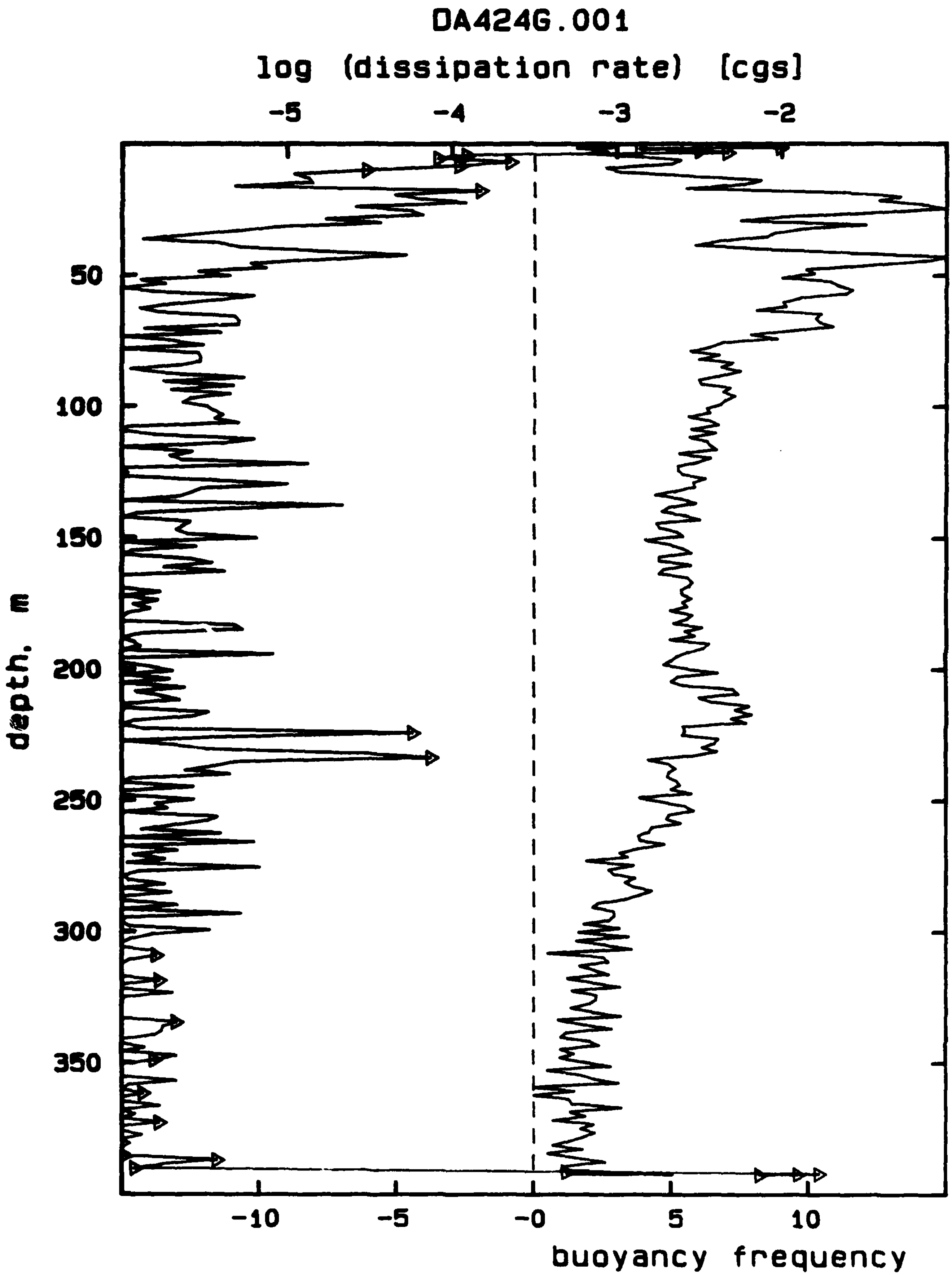

DA424F.003
log (dissipation rate) [cgs]
-5
-4
-3
-2
50
100
150
200
250
300
350
depth, m
-10
-5
-0
5
10
buoyancy

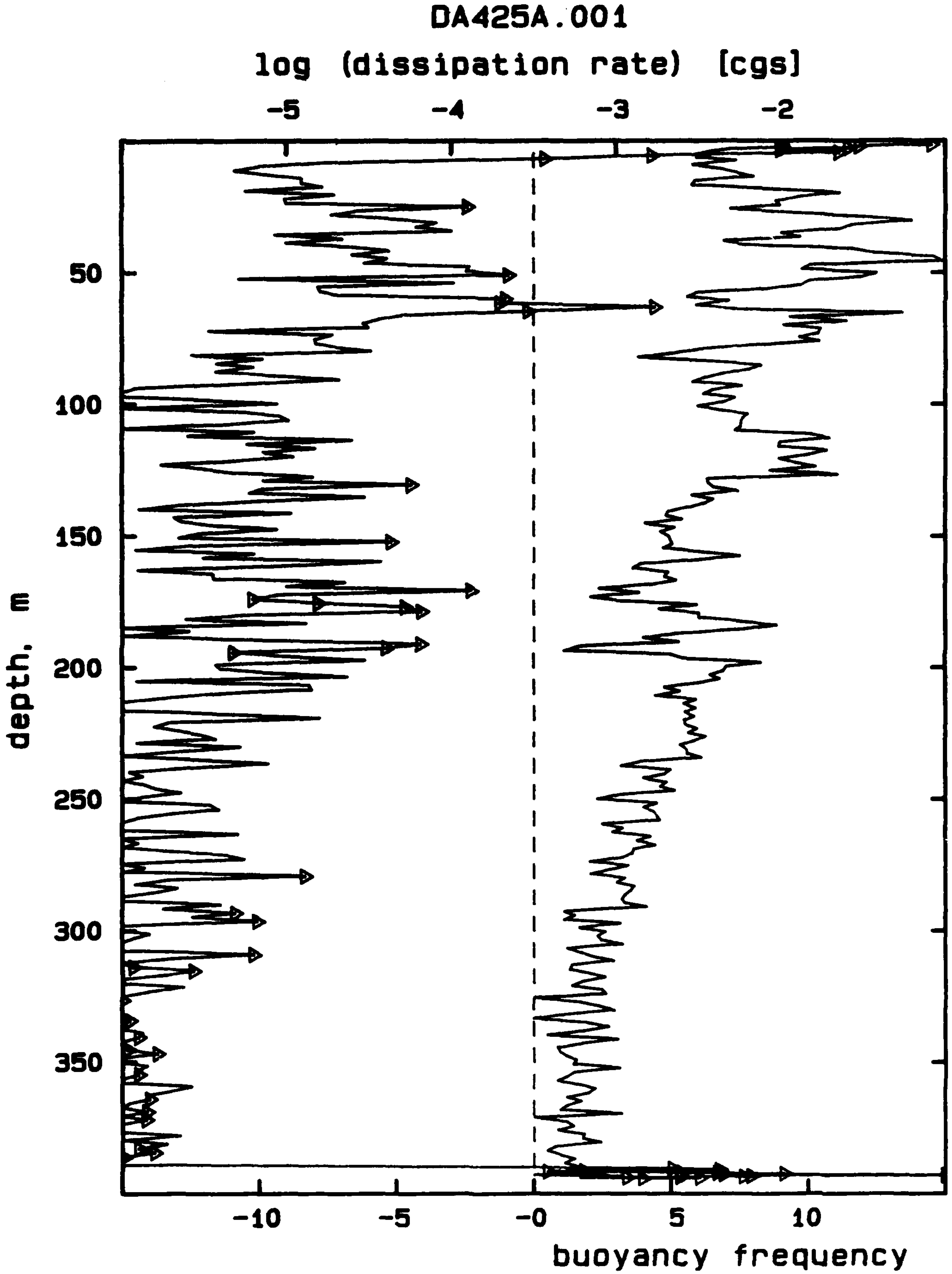
AD-A181 764 MICROSTRUCTURE CASTS DURING AIWEX (ARCTIC INTERNAL WAVE 5/5
EXPERIMENT) A SUMMARY(U) OREGON STATE UNIV CORVALLIS
COLL OF OCEANOGRAPHY T M DILLON ET AL. APR 85 DATA-122
UNCLASSIFIED N00014-84-C-0218 F/G 8/3 NL

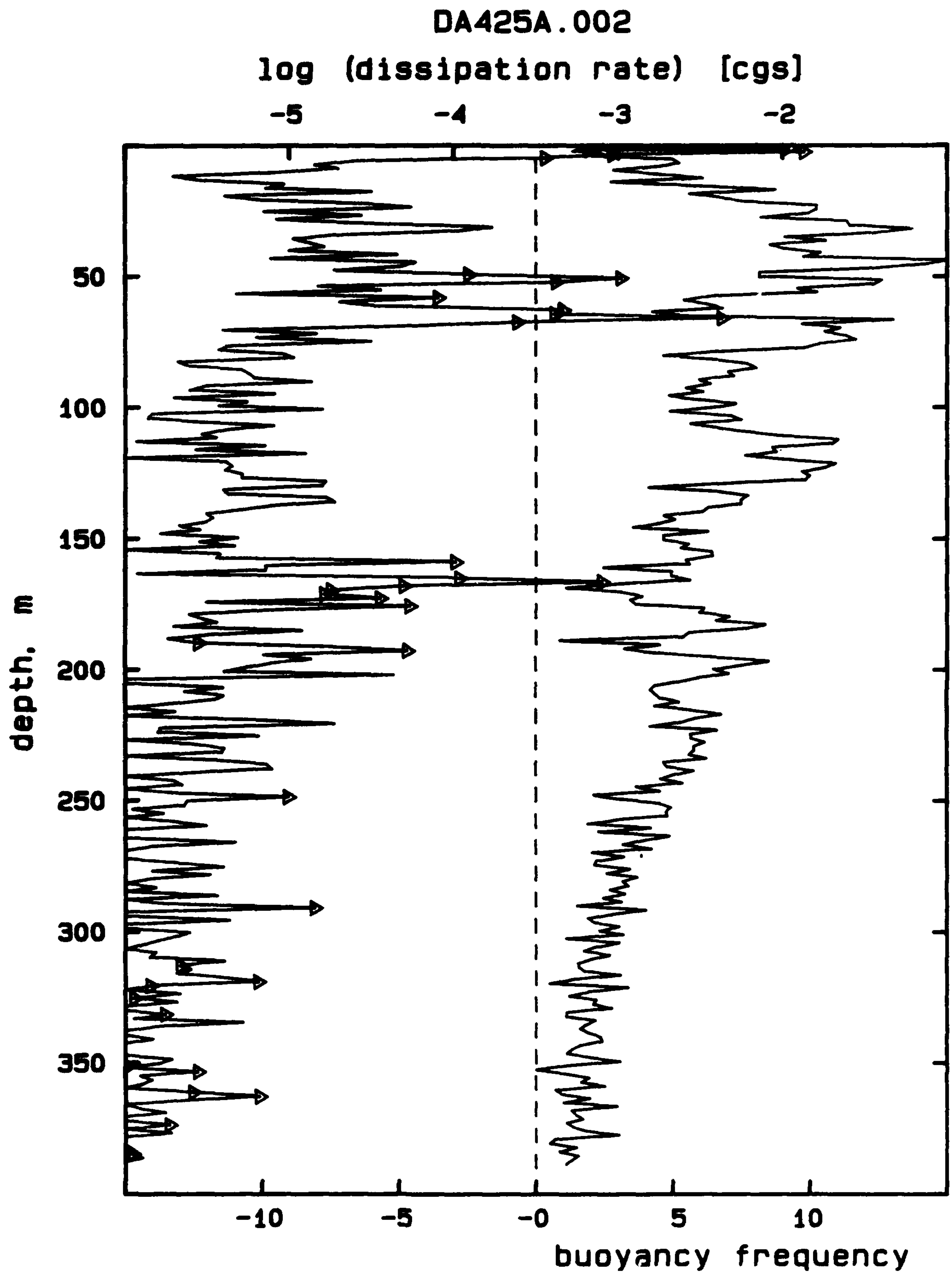


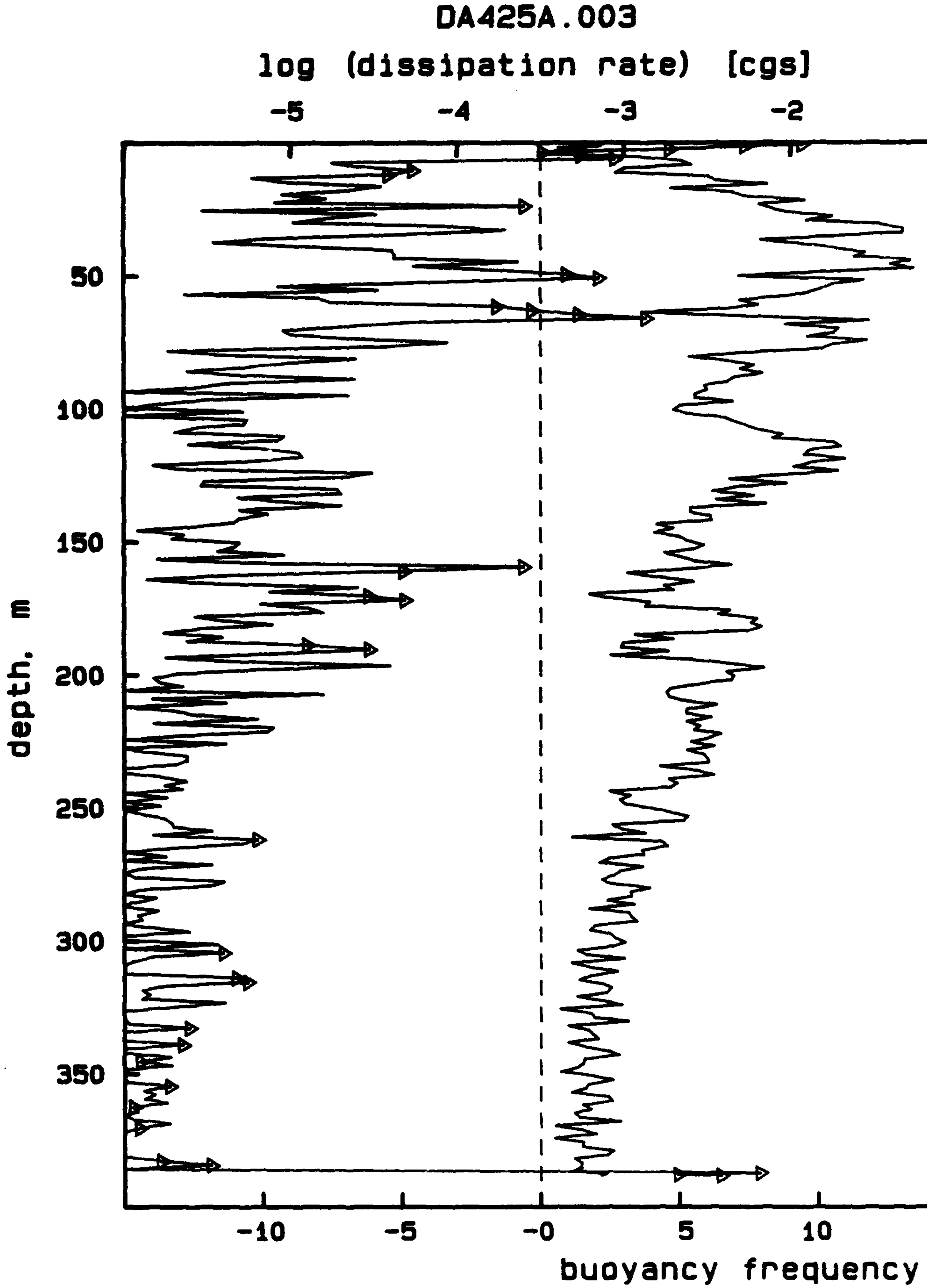


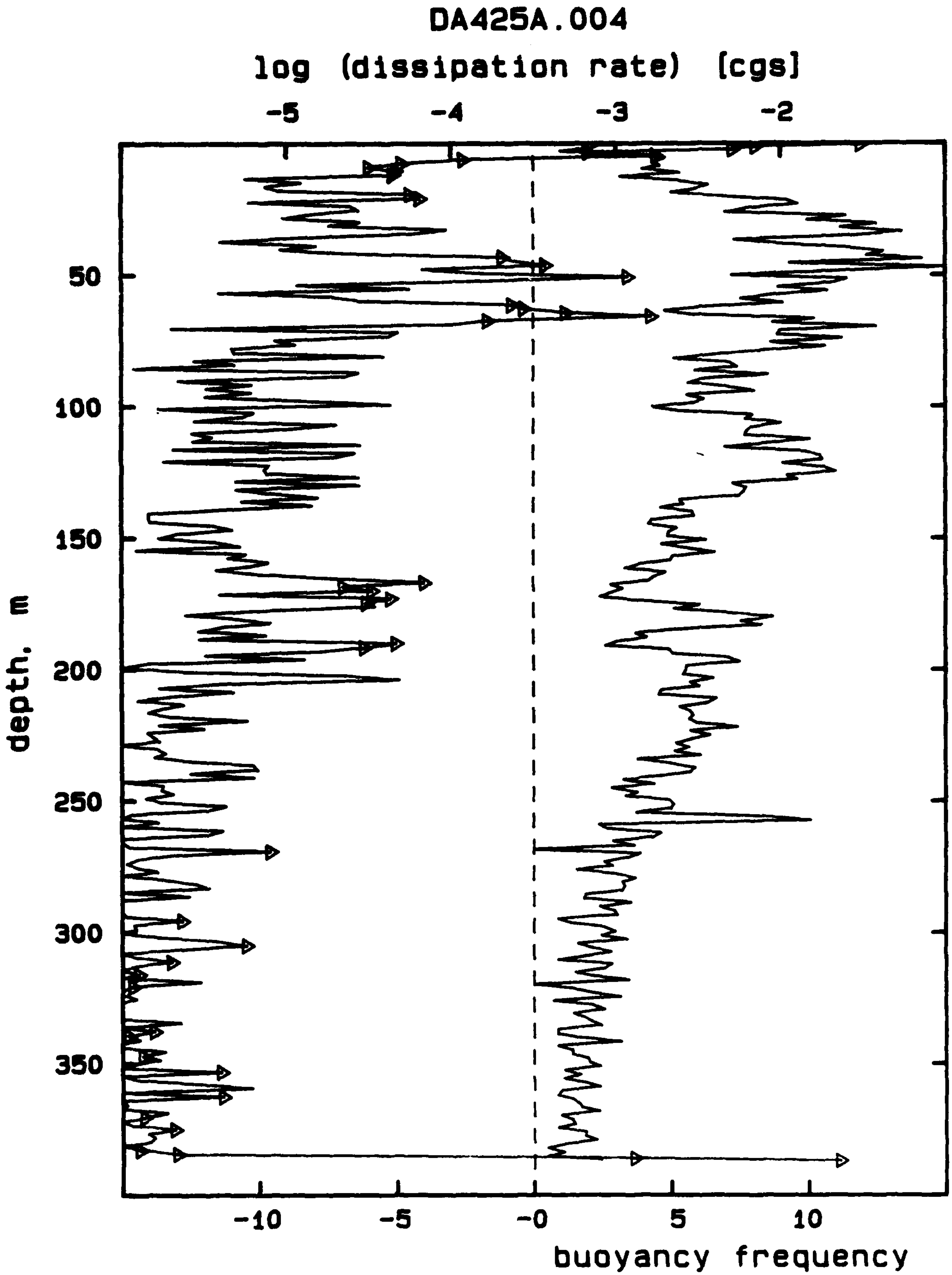
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

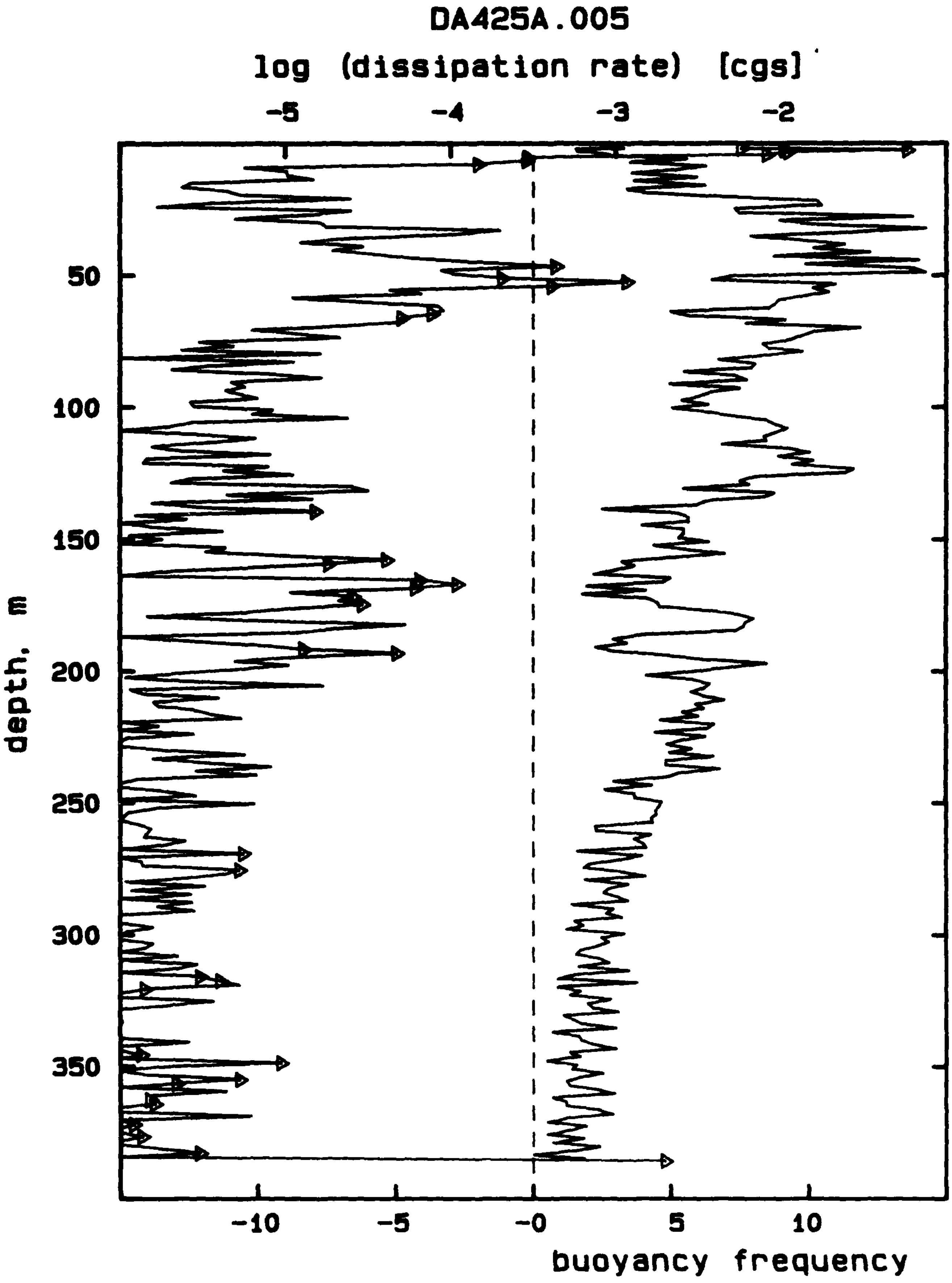

DA424G.001
log (dissipation rate) [cgs]
-5
-4
-3
-2
depth. m
50
100
150
200
250
300
350
-10
-5
-0
5
10
buoyancy frequency

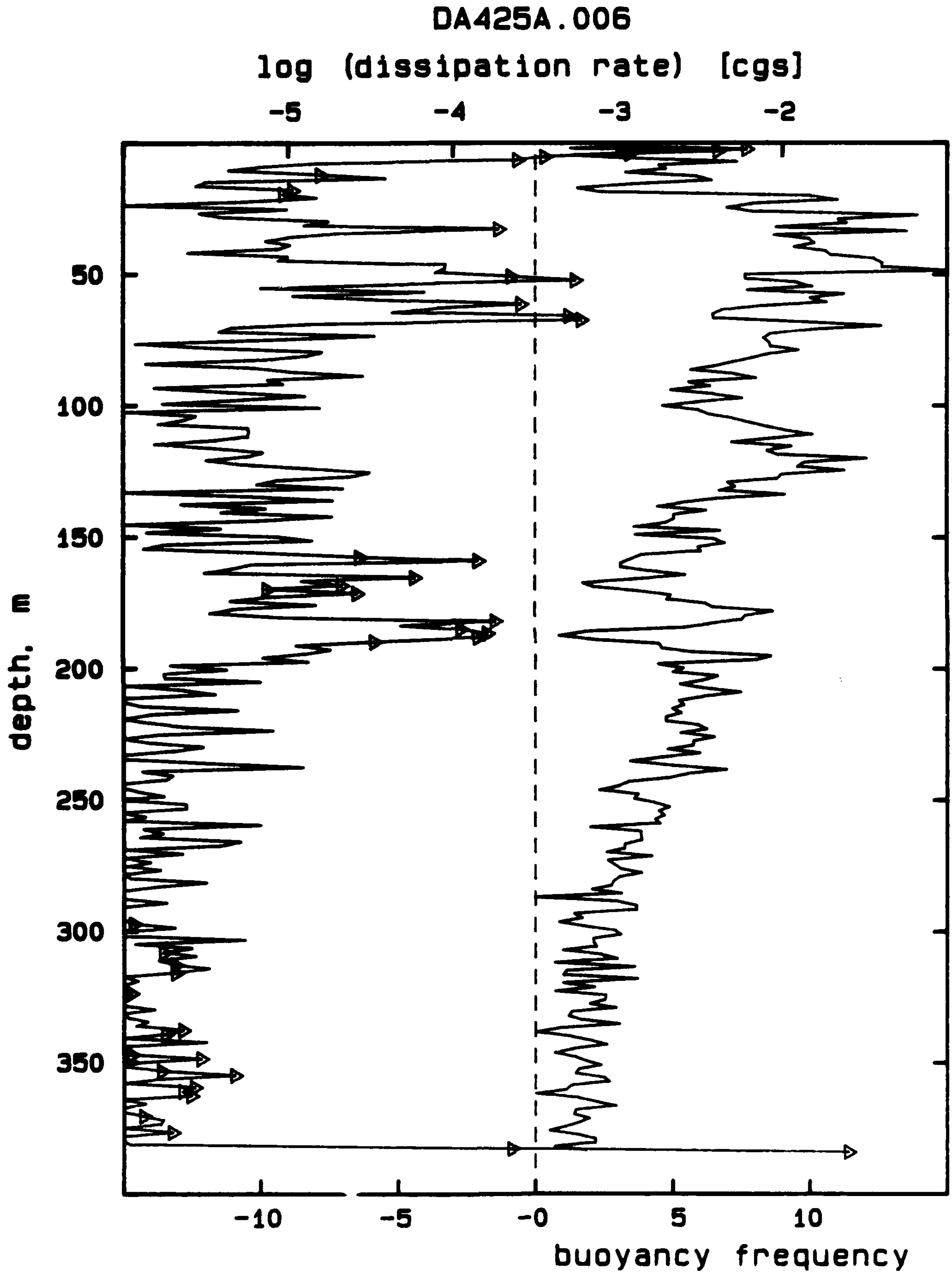

DA425A.001
log (dissipation rate) [cgs]
-5
-4
-3
-2
50
100
150
200
250
300
350
depth, m
-10
-5
-0
5
10
buoyancy frequency


DA425A.002
log (dissipation rate) [cgs]
-5
-4
-3
-2
50
100
150
200
250
300
350
depth, m
-10
-5
-0
5
10
buoyancy frequency

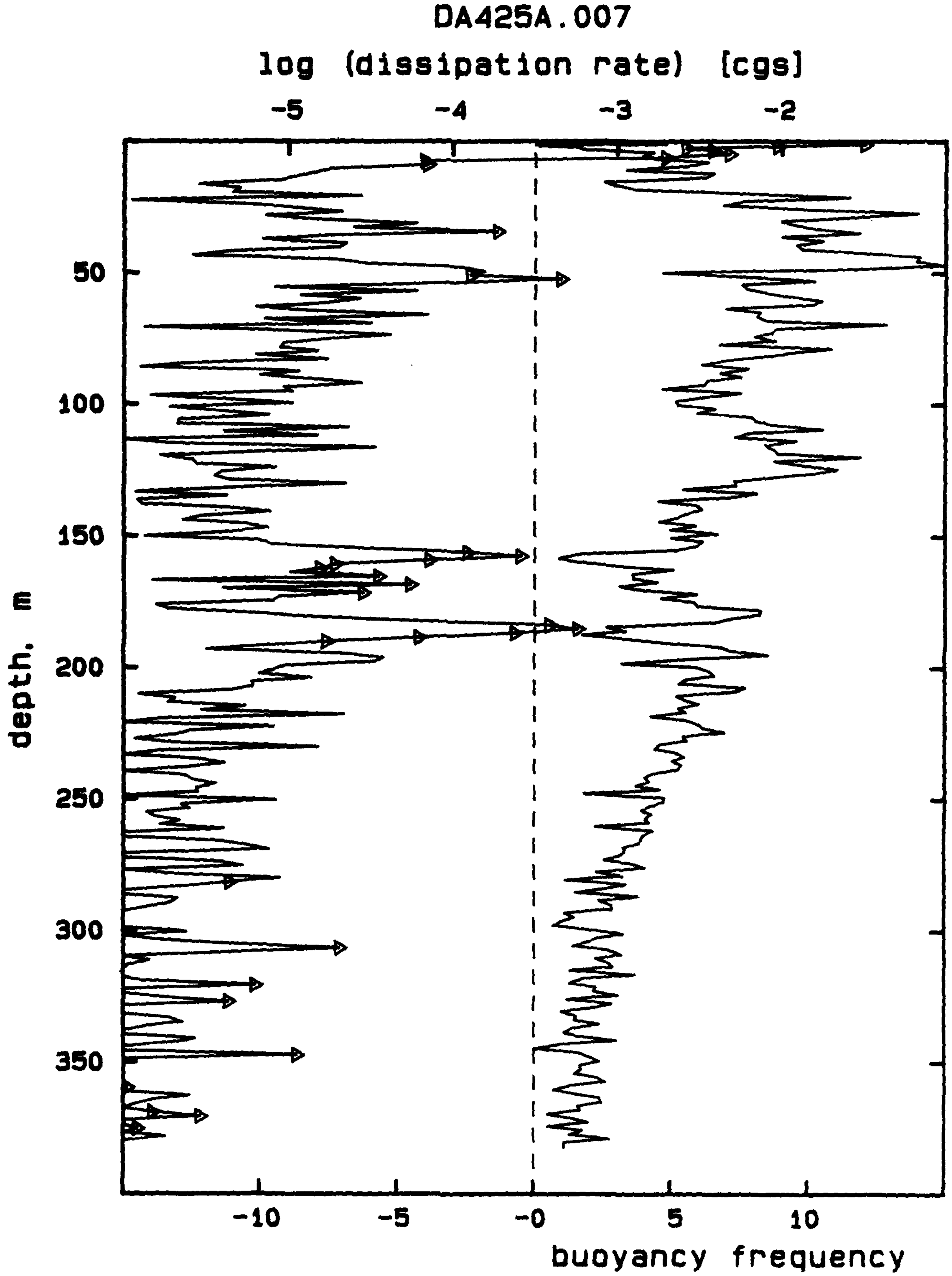

DA425A.003
log (dissipation rate) [cgs]
-5
-4
-3
-2
depth. m
50
100
150
200
250
300
350
-10
-5
-0
5
10
buoyancy frequency

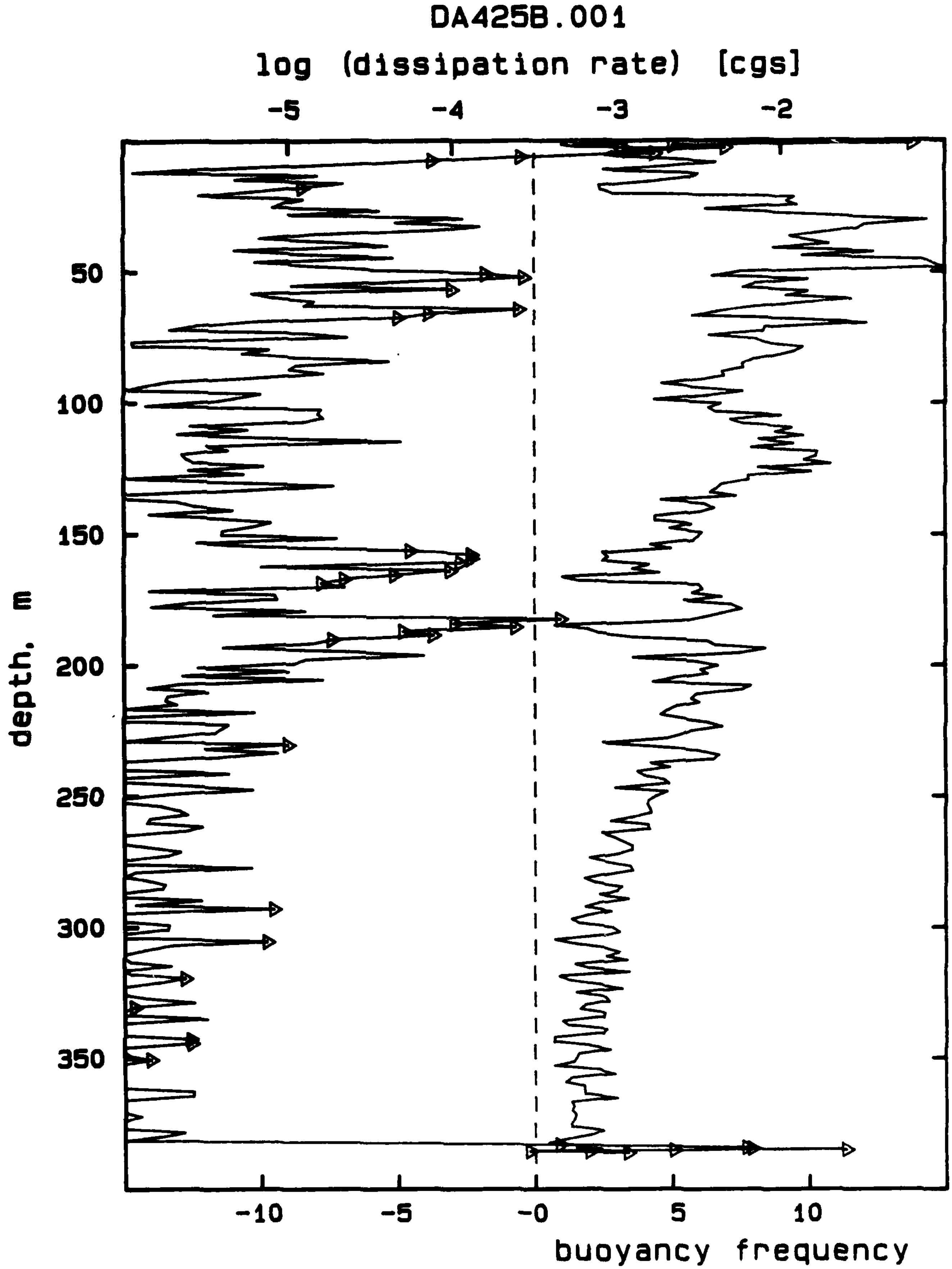

DA425A.004
log (dissipation rate) [cgs]
-5
-4
-3
-2
50
100
150
200
250
300
350
depth, m
-10
-5
-0
5
10
buoyancy frequency


DA425A.005
log (dissipation rate) [cgs]
-5
-4
-3
-2
depth, m
50
100
150
200
250
300
350
-10
-5
-0
5
10
buoyancy frequency

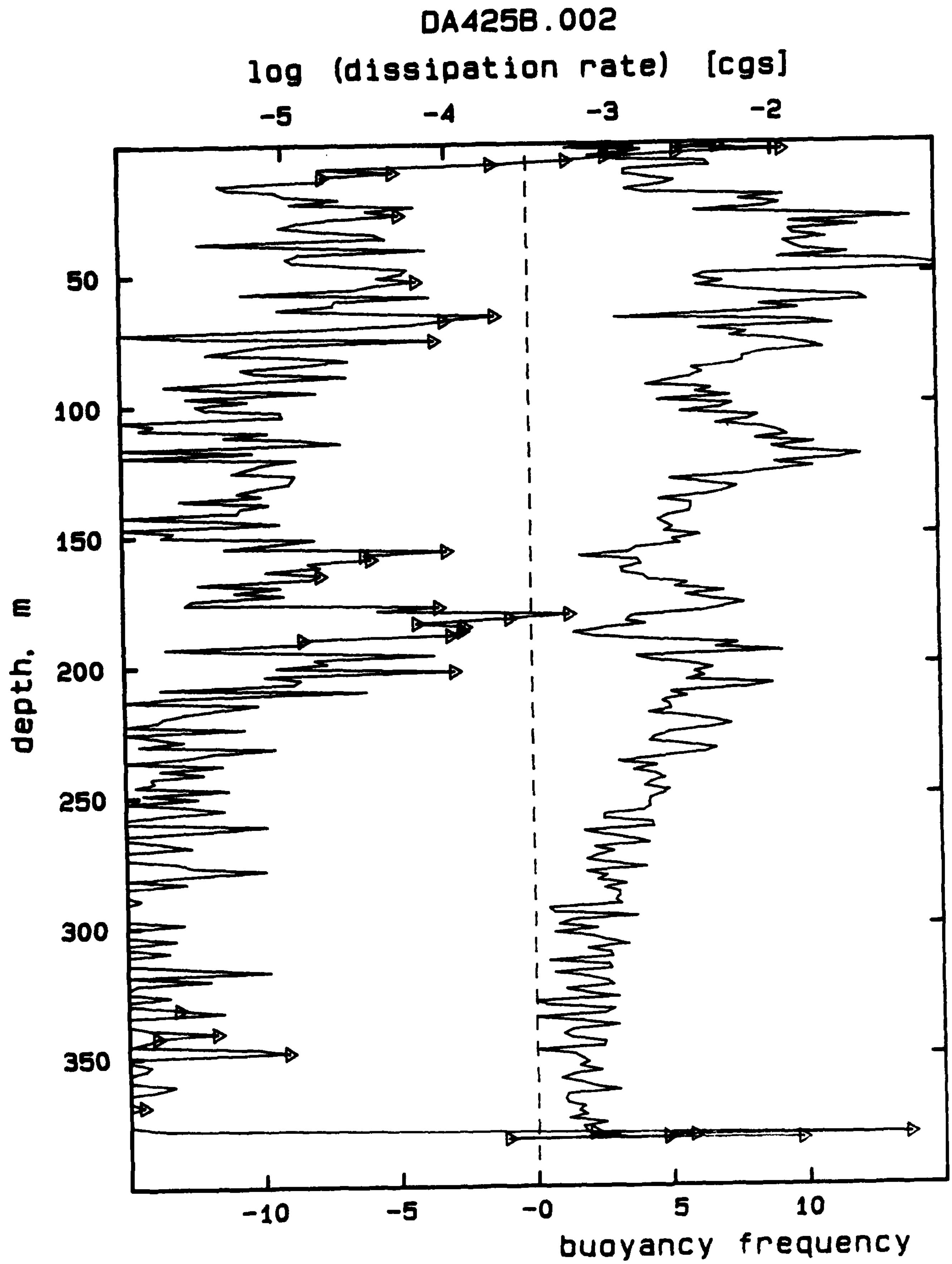


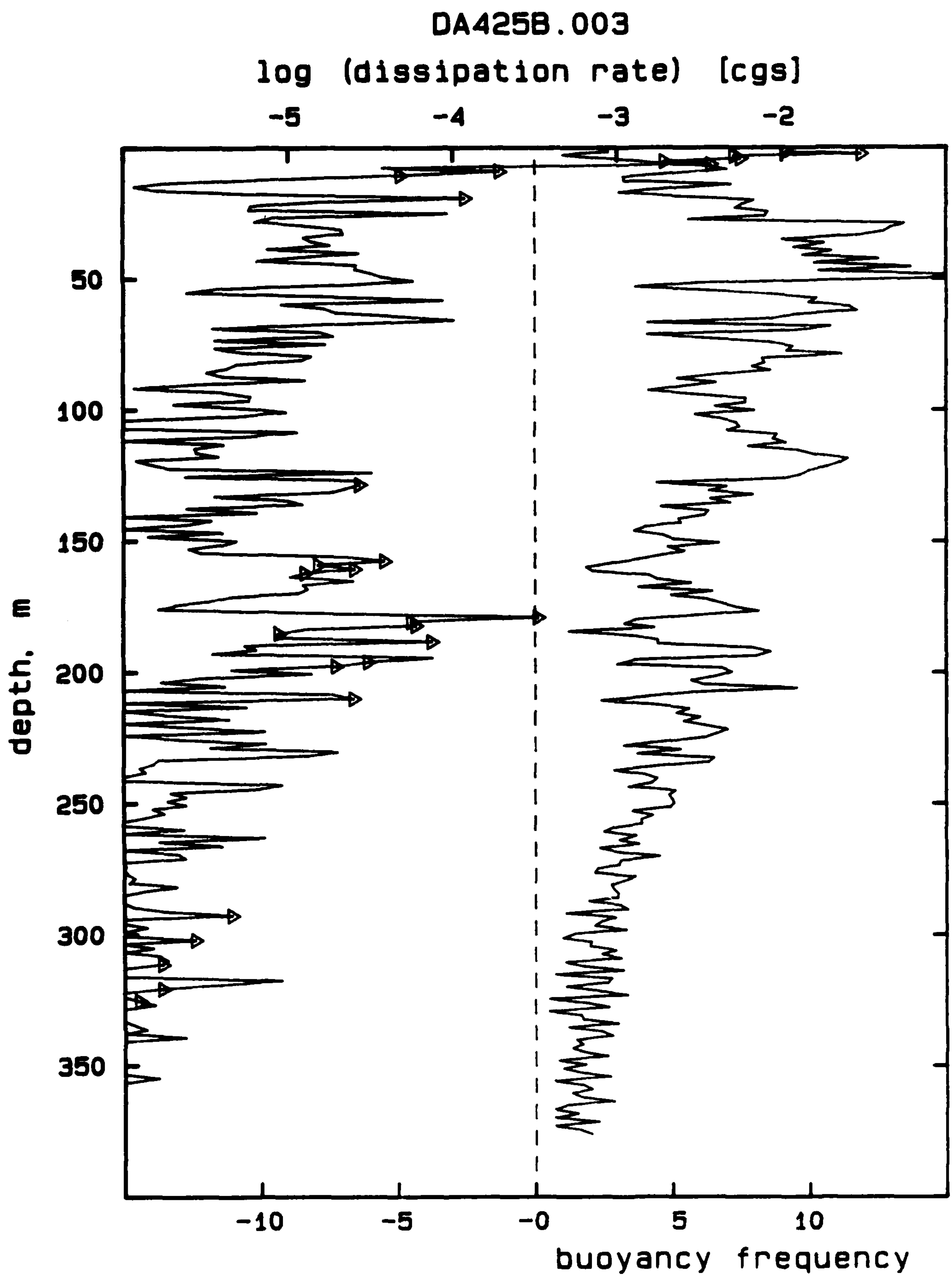
DA425A.006
log (dissipation rate) [cgs]
-5
-4
-3
-2
50
100
150
200
250
300
350
depth. m
-10
-5
-0
5
10
buoyancy frequency

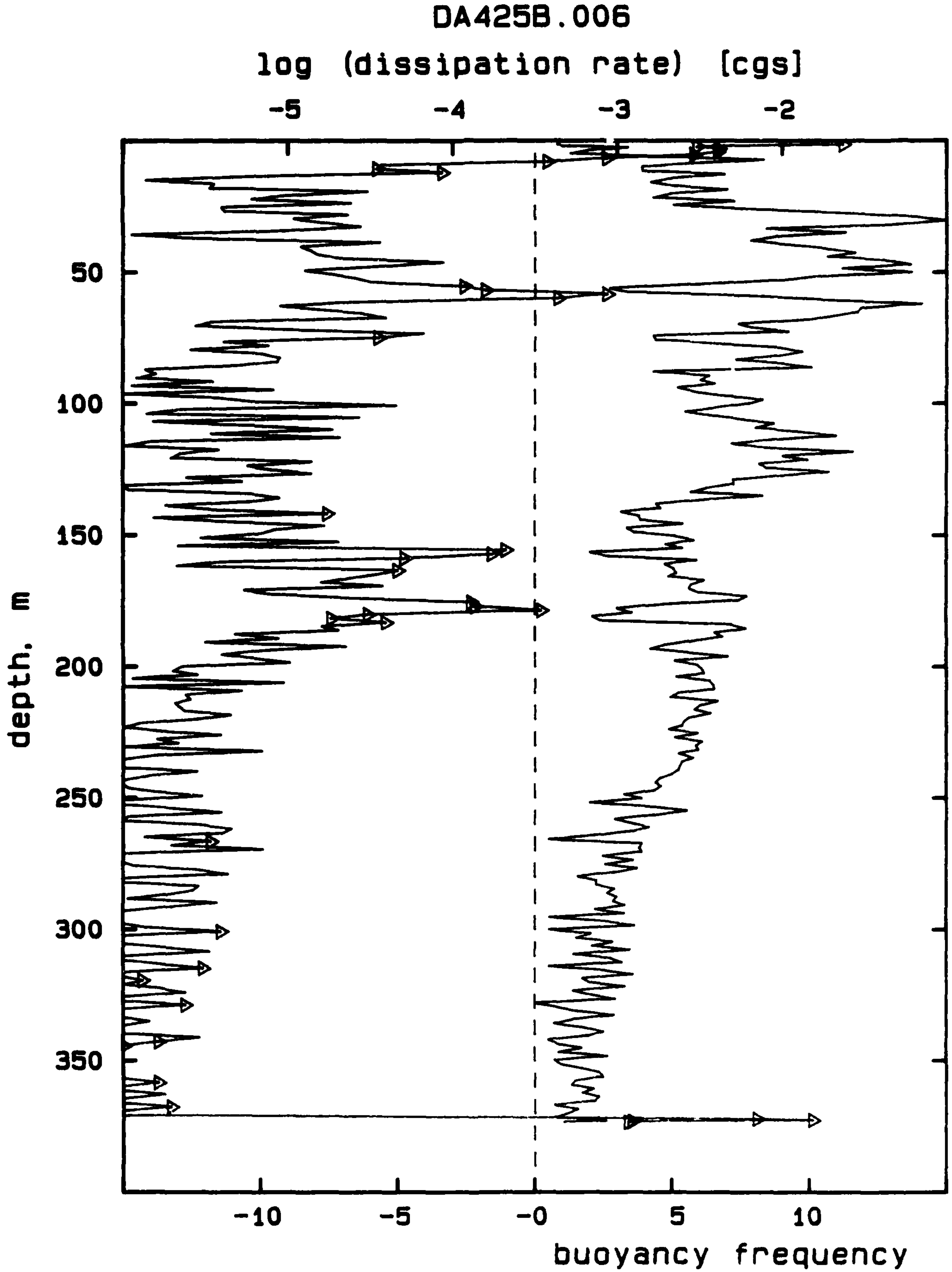

DA425A.007
log (dissipation rate) [cgs]
-5
-4
-3
-2
50
100
150
200
250
300
350
depth, m
-10
-5
-0
5
10
buoyancy frequency

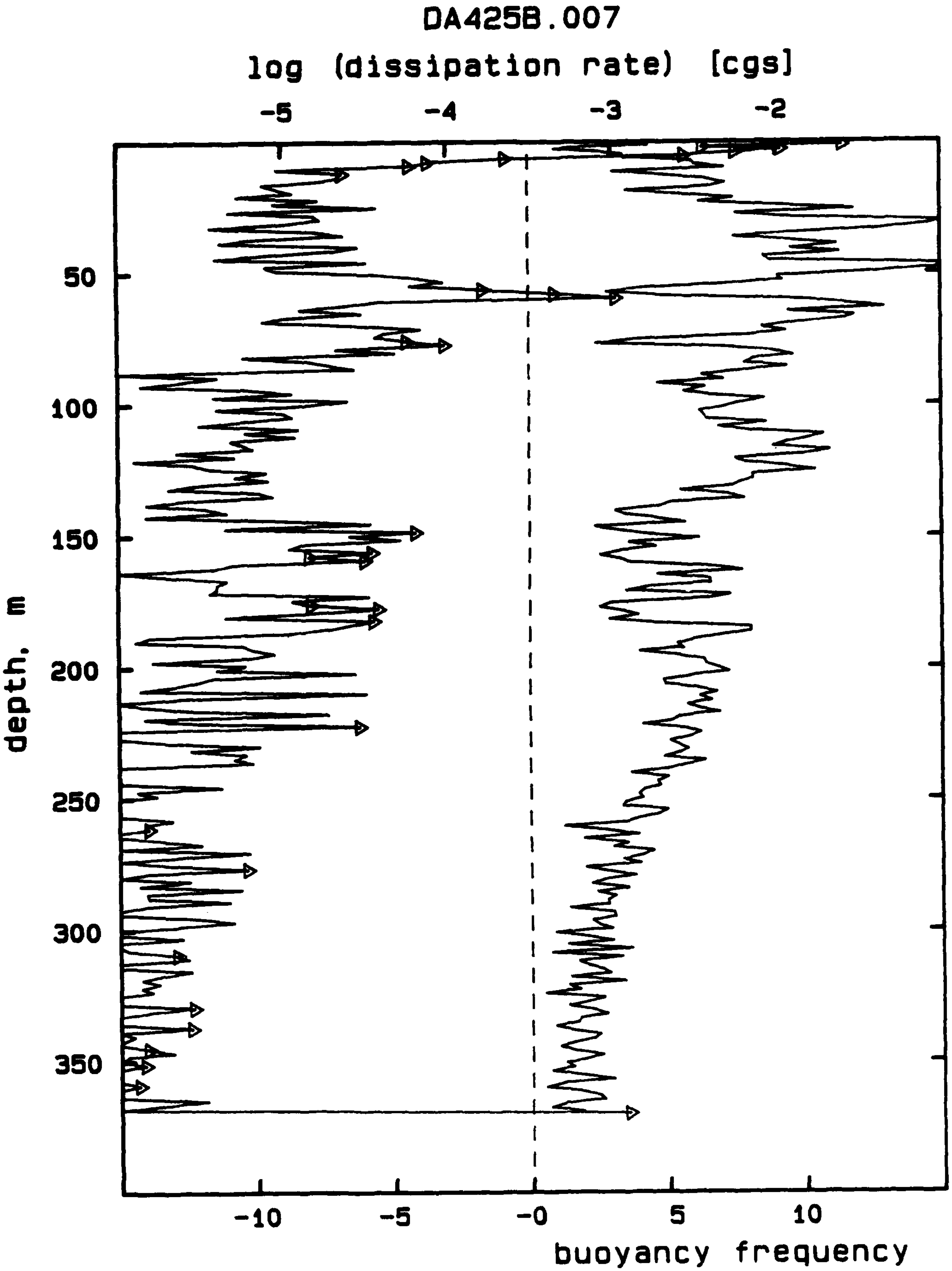


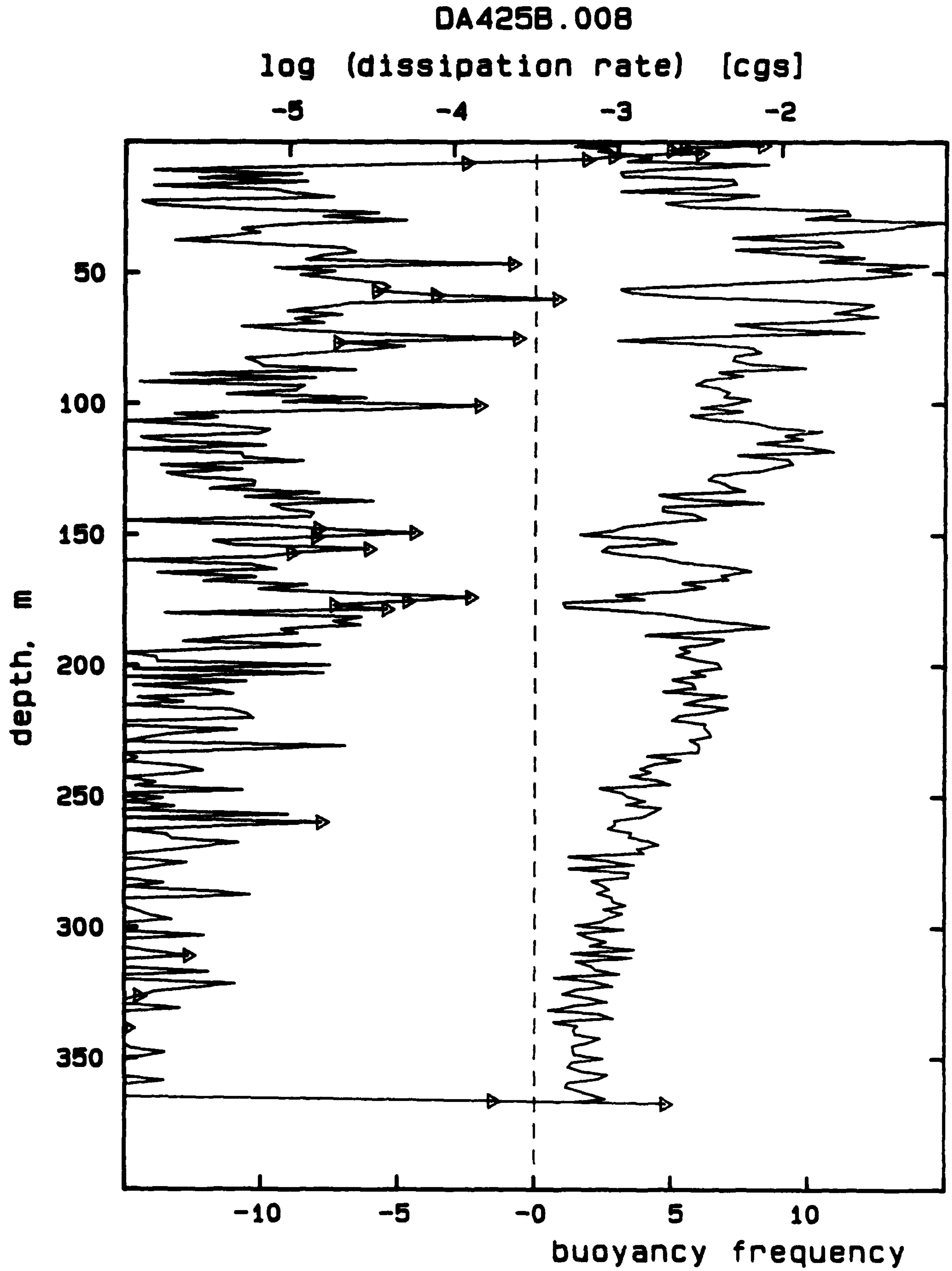
DA425B.001
log (dissipation rate) [cgs]
-5
-4
-3
-2
50
100
150
200
250
300
350
depth, m
-10
-5
-0
5
10
buoyancy frequency

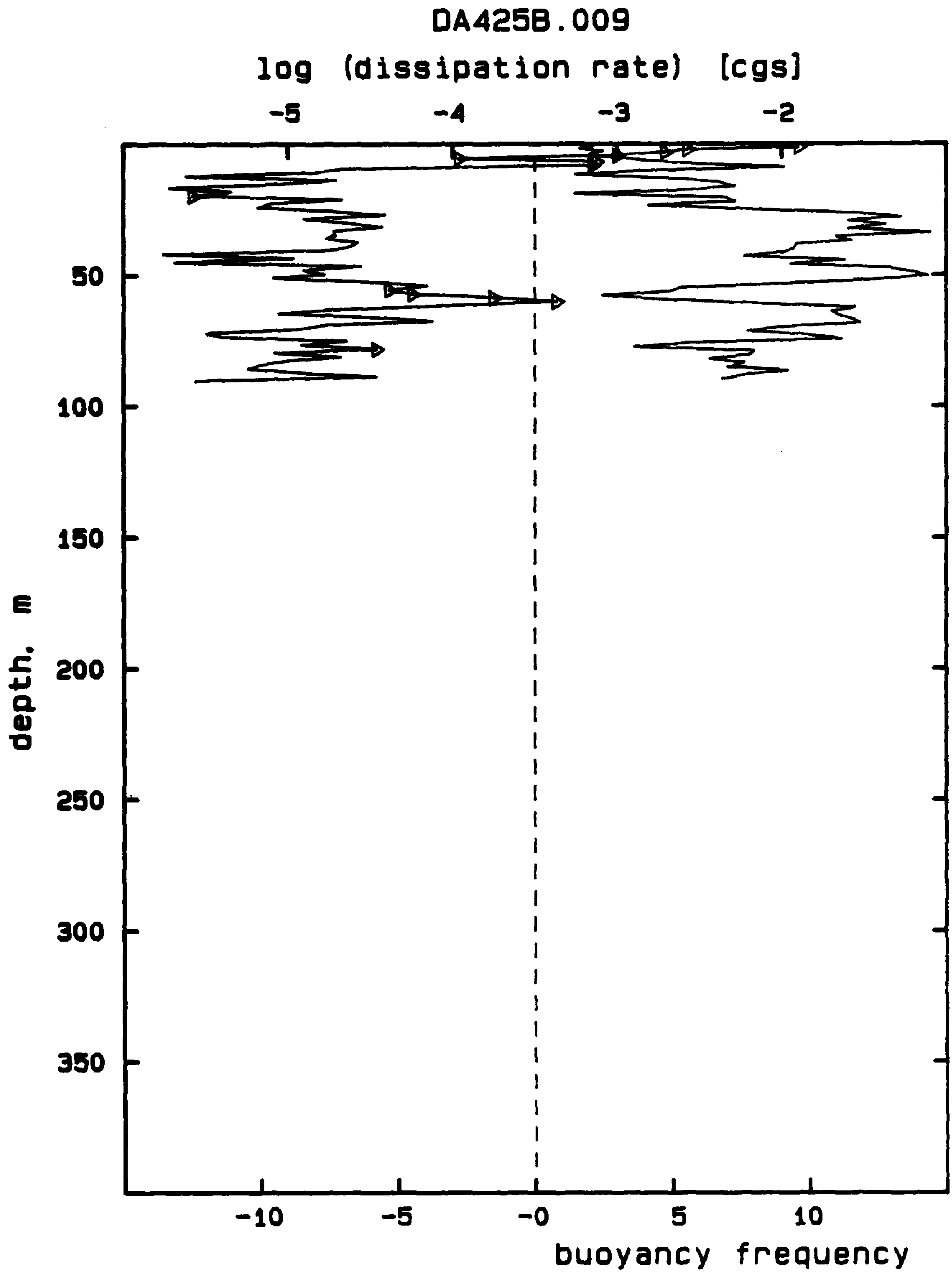

DA425B.002
log (dissipation rate) [cgs]
-5
-4
-3
-2
depth. m
50
100
150
200
250
300
350
-10
-5
-0
5
10
buoyancy frequency

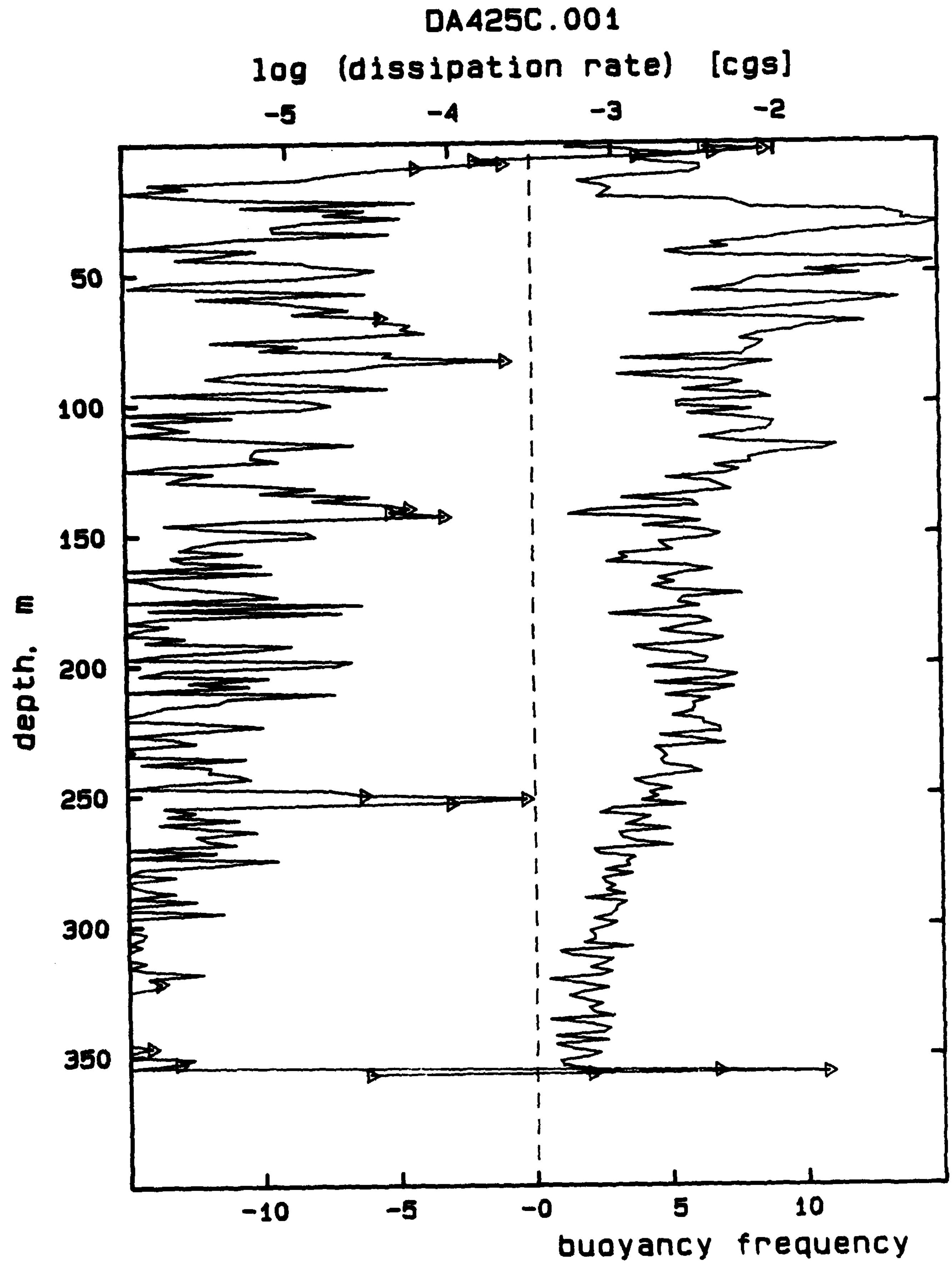

DA425B.003
log (dissipation rate) [cgs]
-5
-4
-3
-2
50
100
150
200
250
300
350
depth, m
-10
-5
-0
5
10
buoyancy frequency

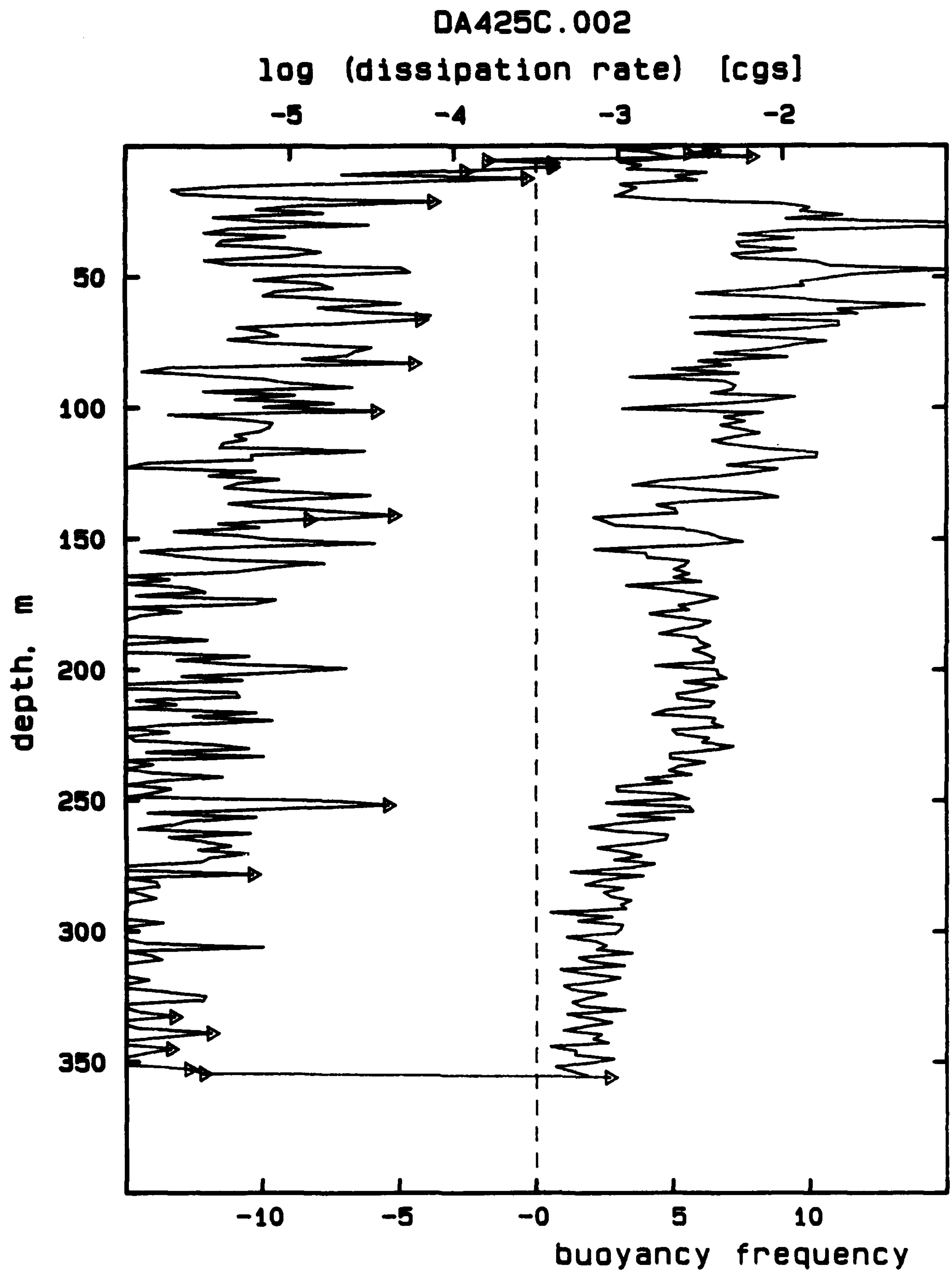

DA425B.006
log (dissipation rate) [cgs]
-5
-4
-3
-2
50
100
150
200
250
300
350
depth, m
-10
-5
-0
5
10
buoyancy frequency

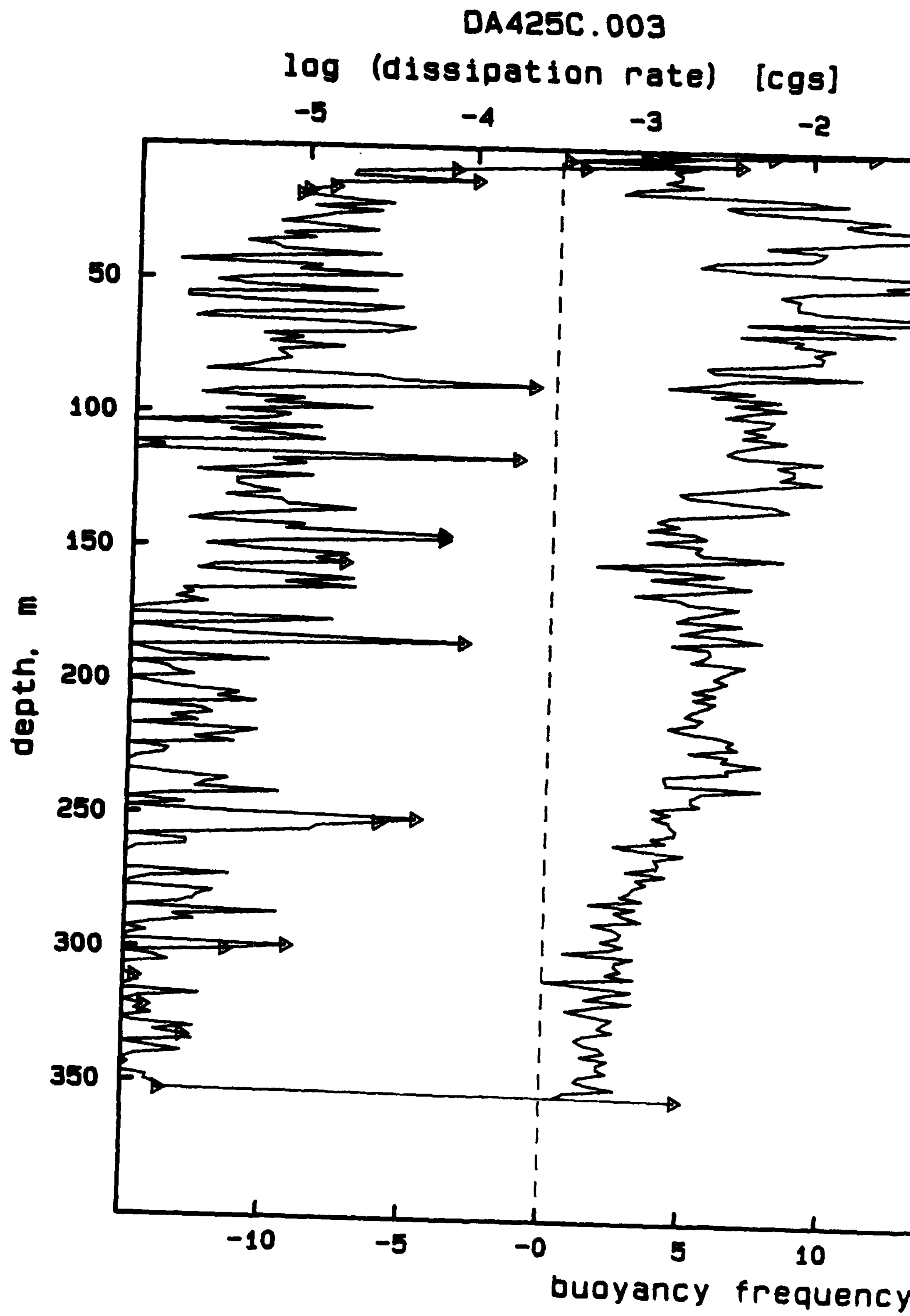

DA425B.007
log (dissipation rate) [cgs]
-5
-4
-3
-2
depth, m
50
100
150
200
250
300
350
-10
-5
-0
5
10
buoyancy frequency

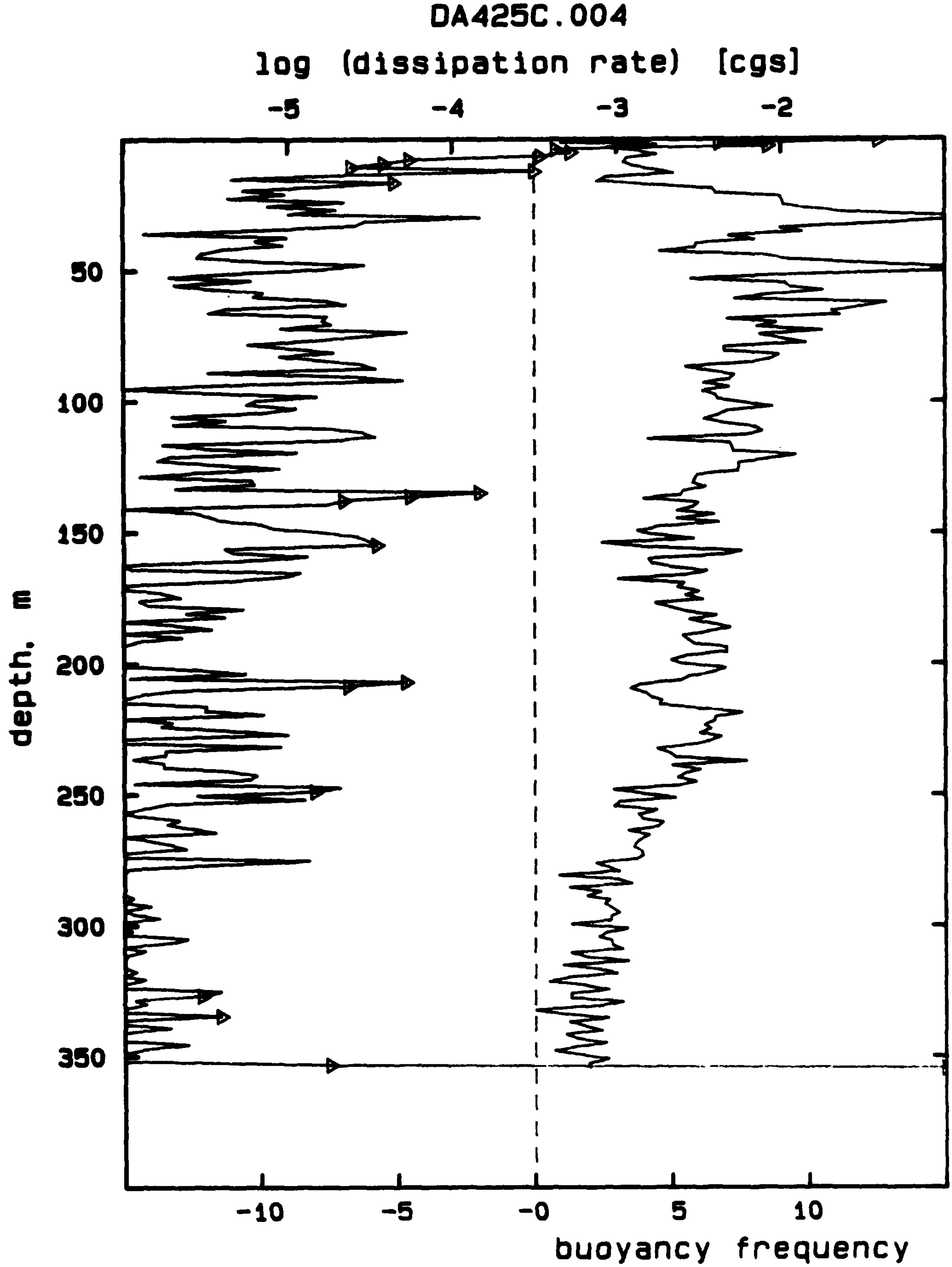

DA425B.008
log (dissipation rate) [cgs]
-5
-4
-3
-2
depth, m
50
100
150
200
250
300
350
-10
-5
-0
5
10
buoyancy frequency

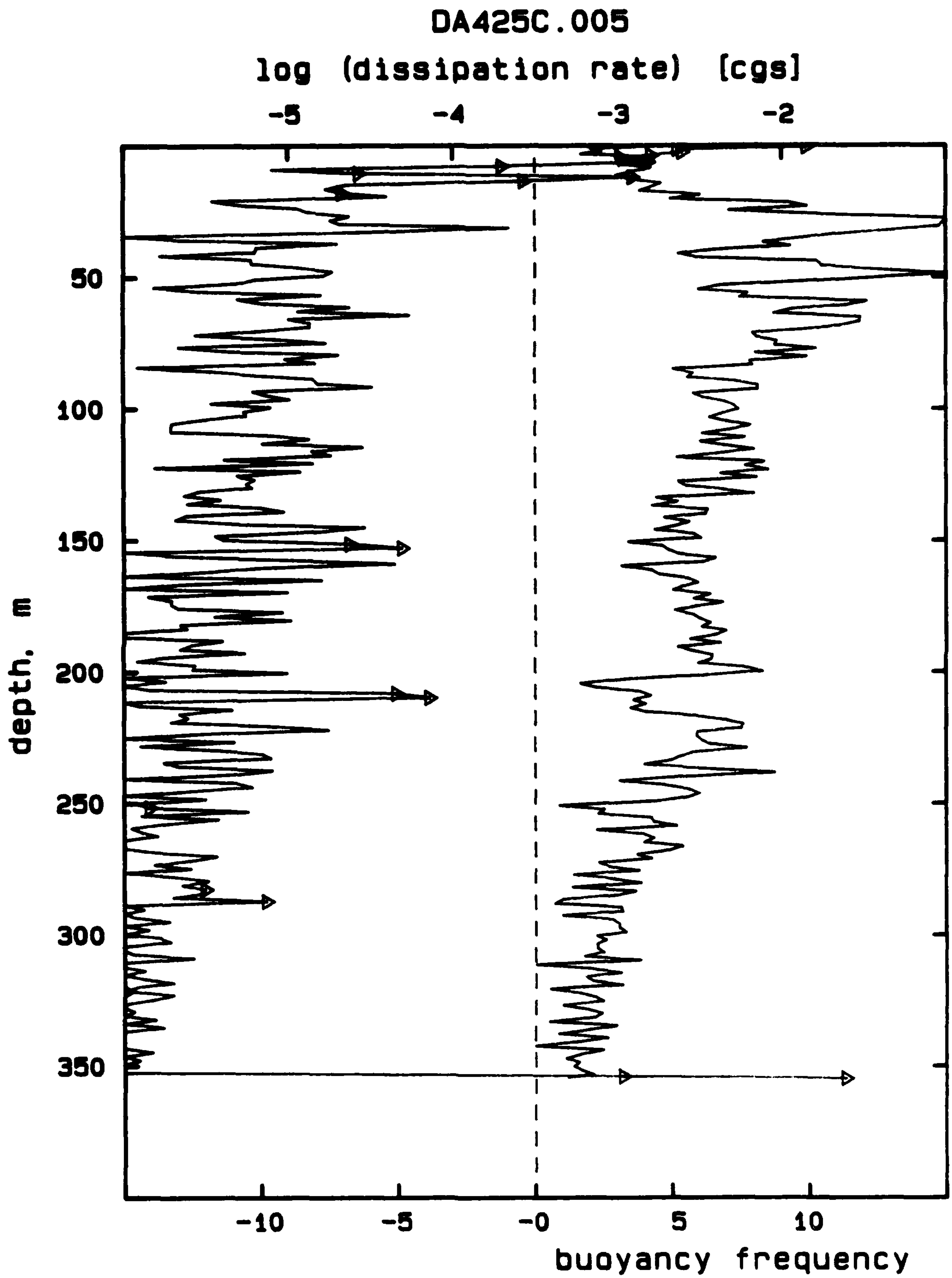

DA425B.009
log (dissipation rate) [cgs]
-5
-4
-3
-2
depth, m
50
100
150
200
250
300
350
-10
-5
-0
5
10
buoyancy frequency


DA425C.001
log (dissipation rate) [cgs]
-5
-4
-3
-2
depth. m
50
100
150
200
250
300
350
-10
-5
-0
5
10
buoyancy frequency

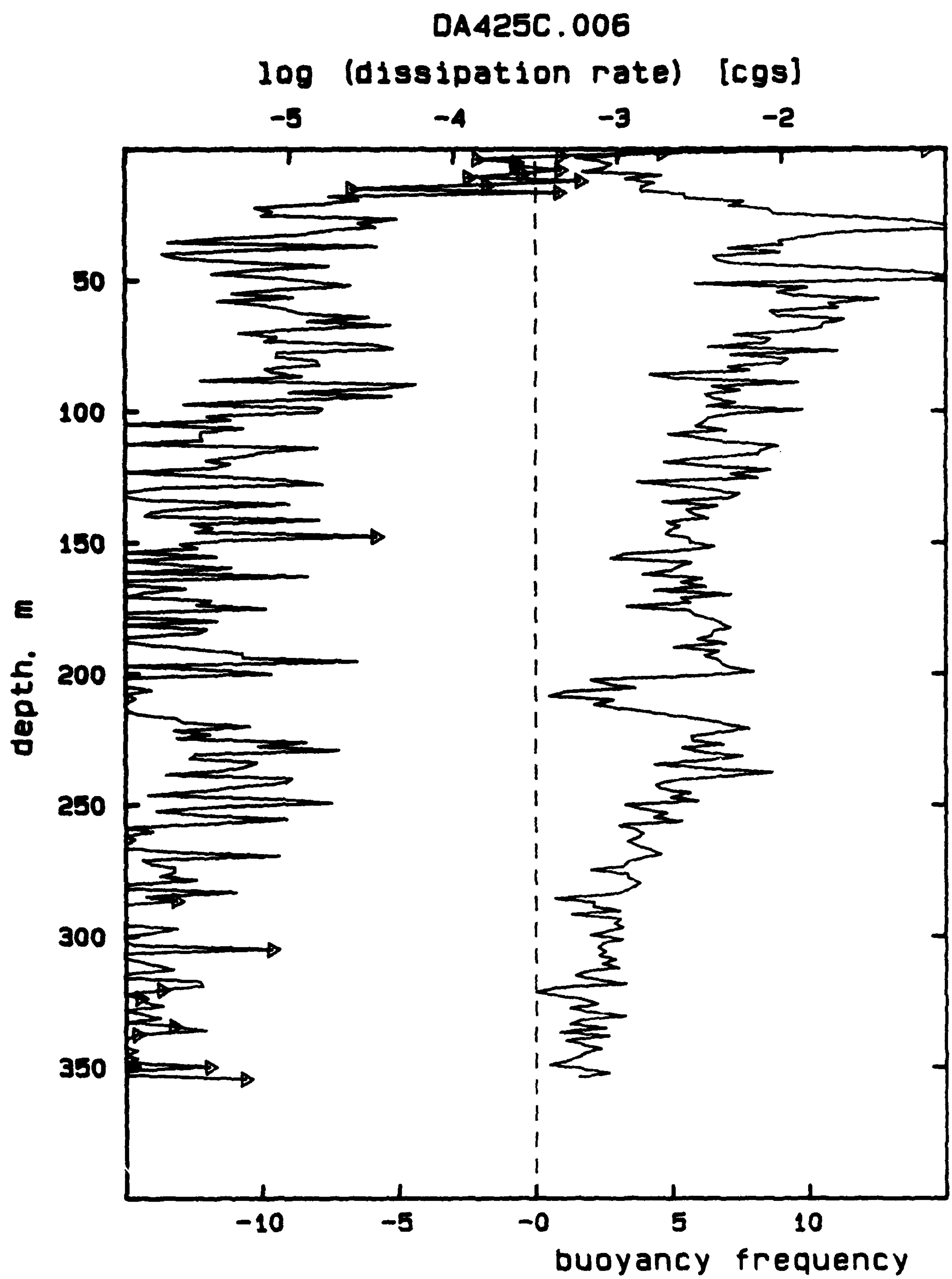

DA425C.002
log (dissipation rate) [cgs]
-5
-4
-3
-2
depth, m
50
100
150
200
250
300
350
-10
-5
-0
5
10
buoyancy frequency

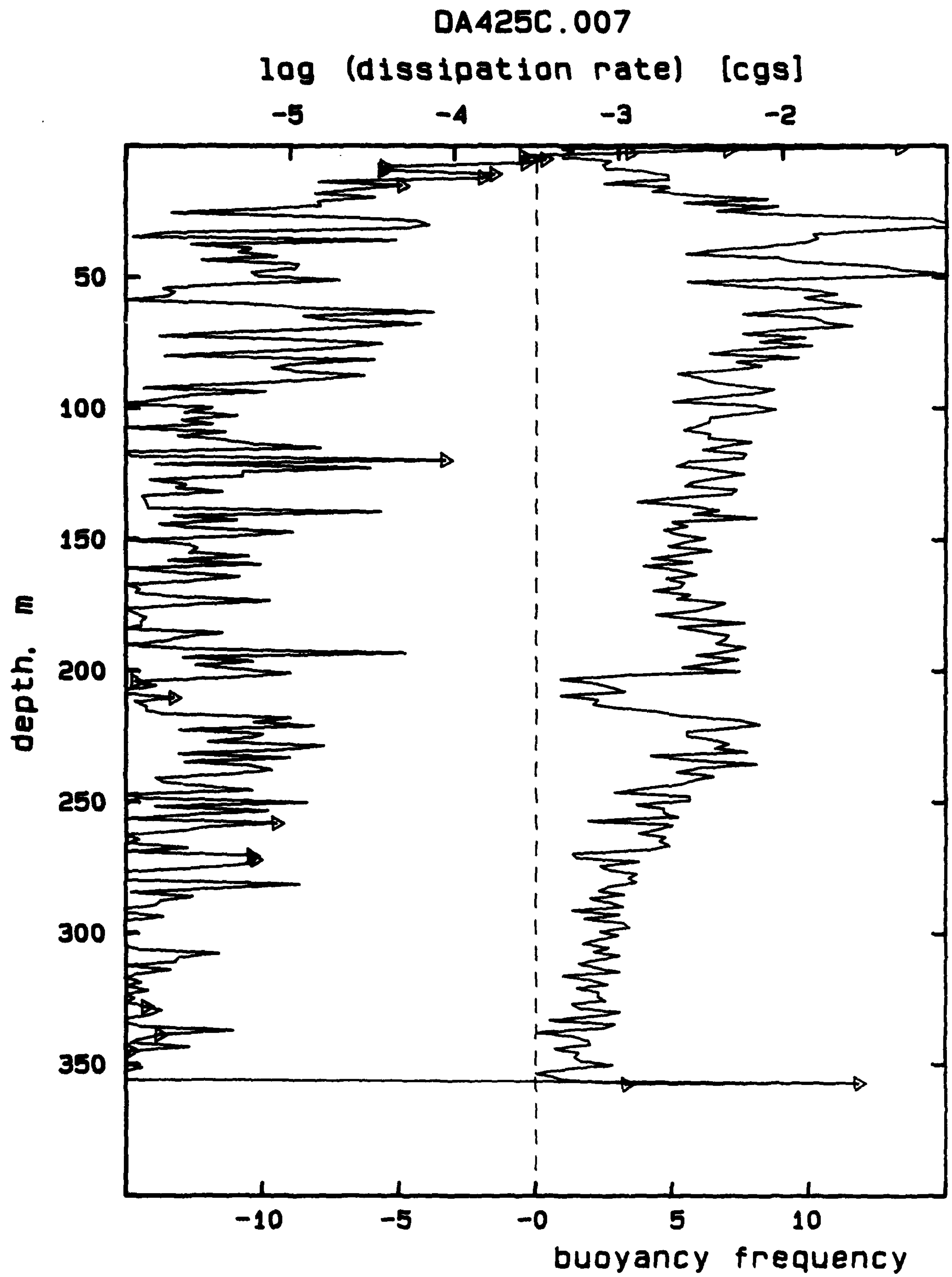

DA425C.003
log (dissipation rate) [cgs]
-5
-4
-3
-2
50
100
150
200
250
300
350
depth, m
-10
-5
-0
5
10
buoyancy frequency

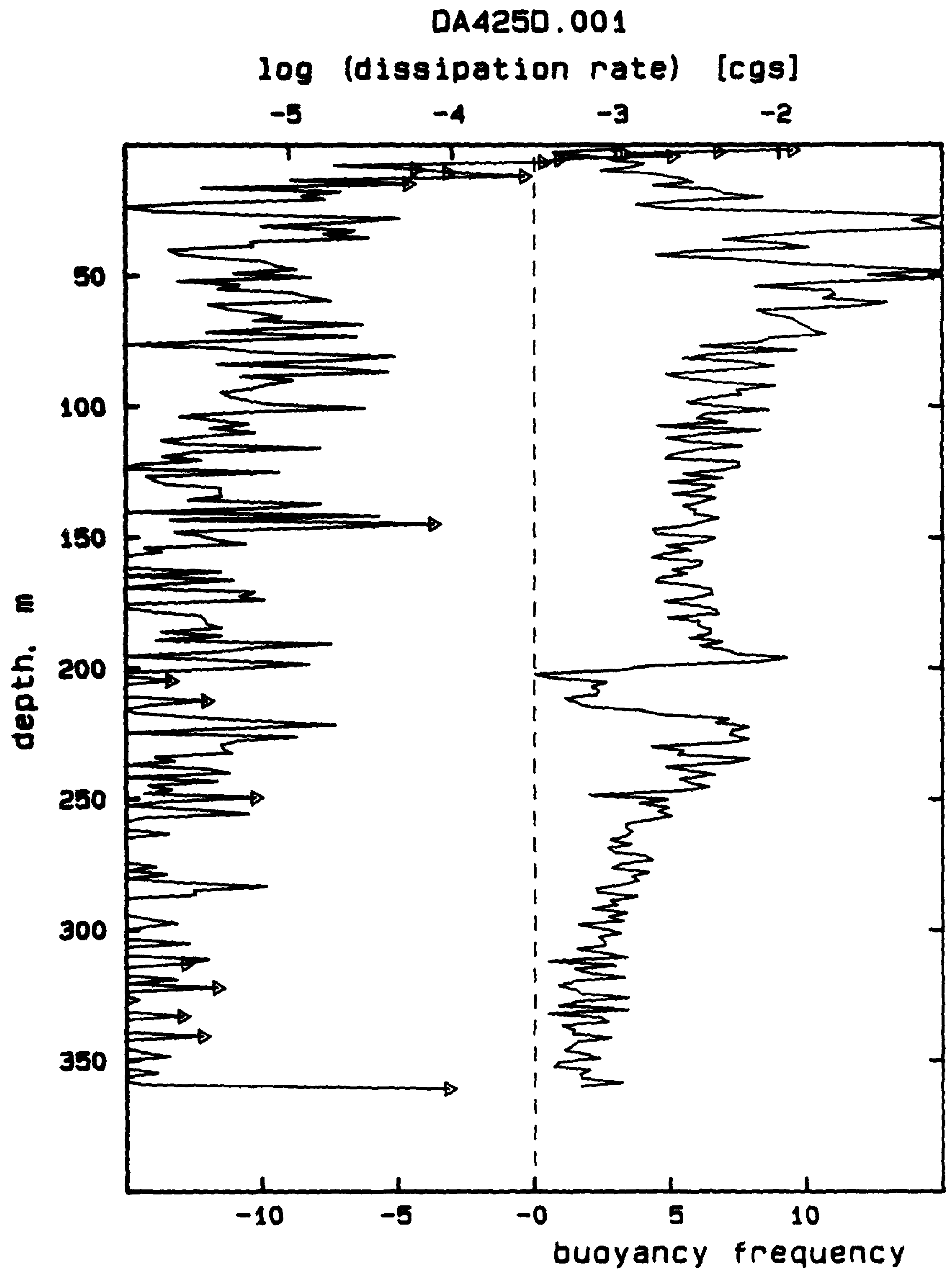

DA425C.004
log (dissipation rate) [cgs]
-5
-4
-3
-2
depth. m
50
100
150
200
250
300
350
-10
-5
-0
5
10
buoyancy frequency

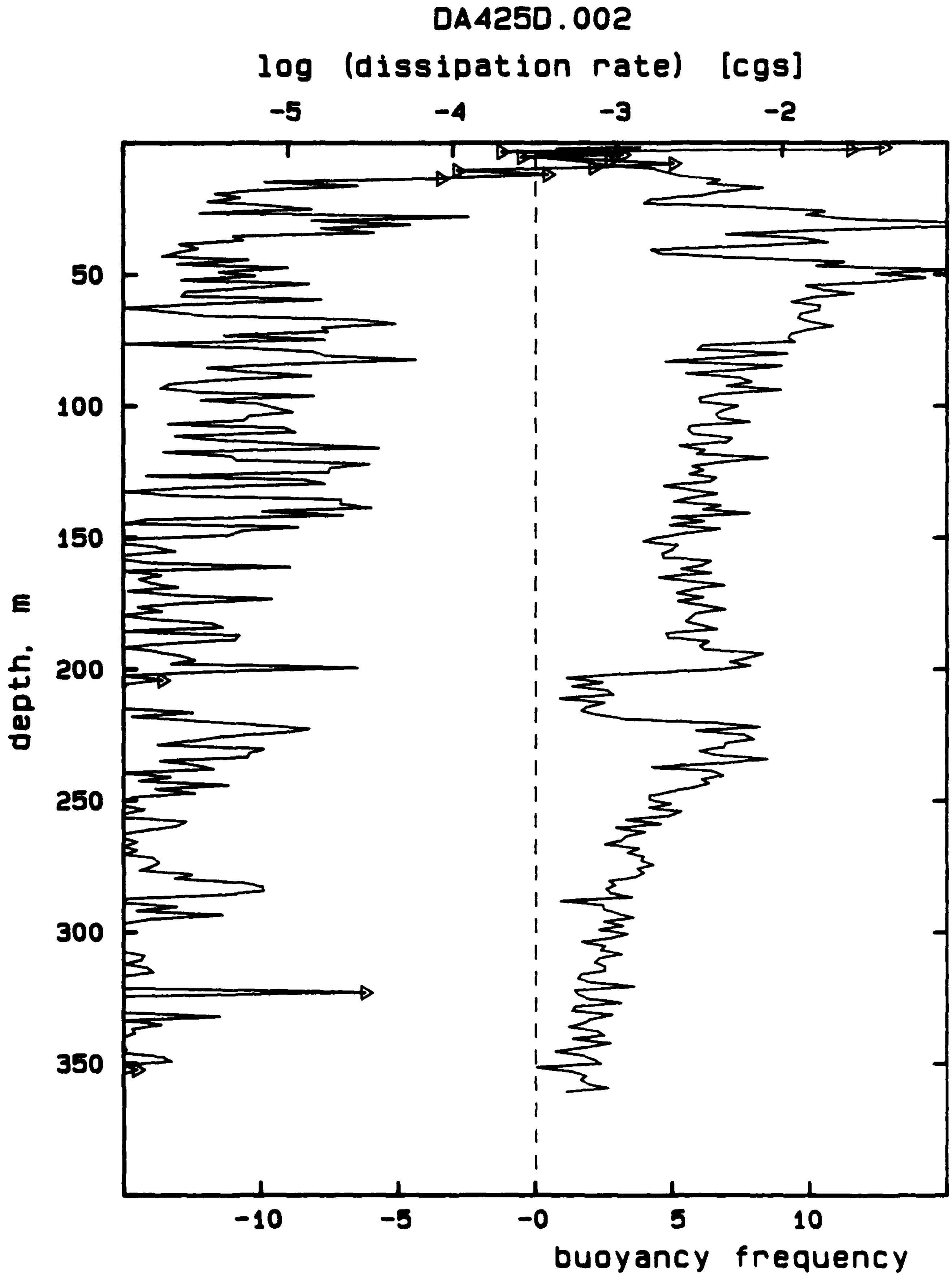


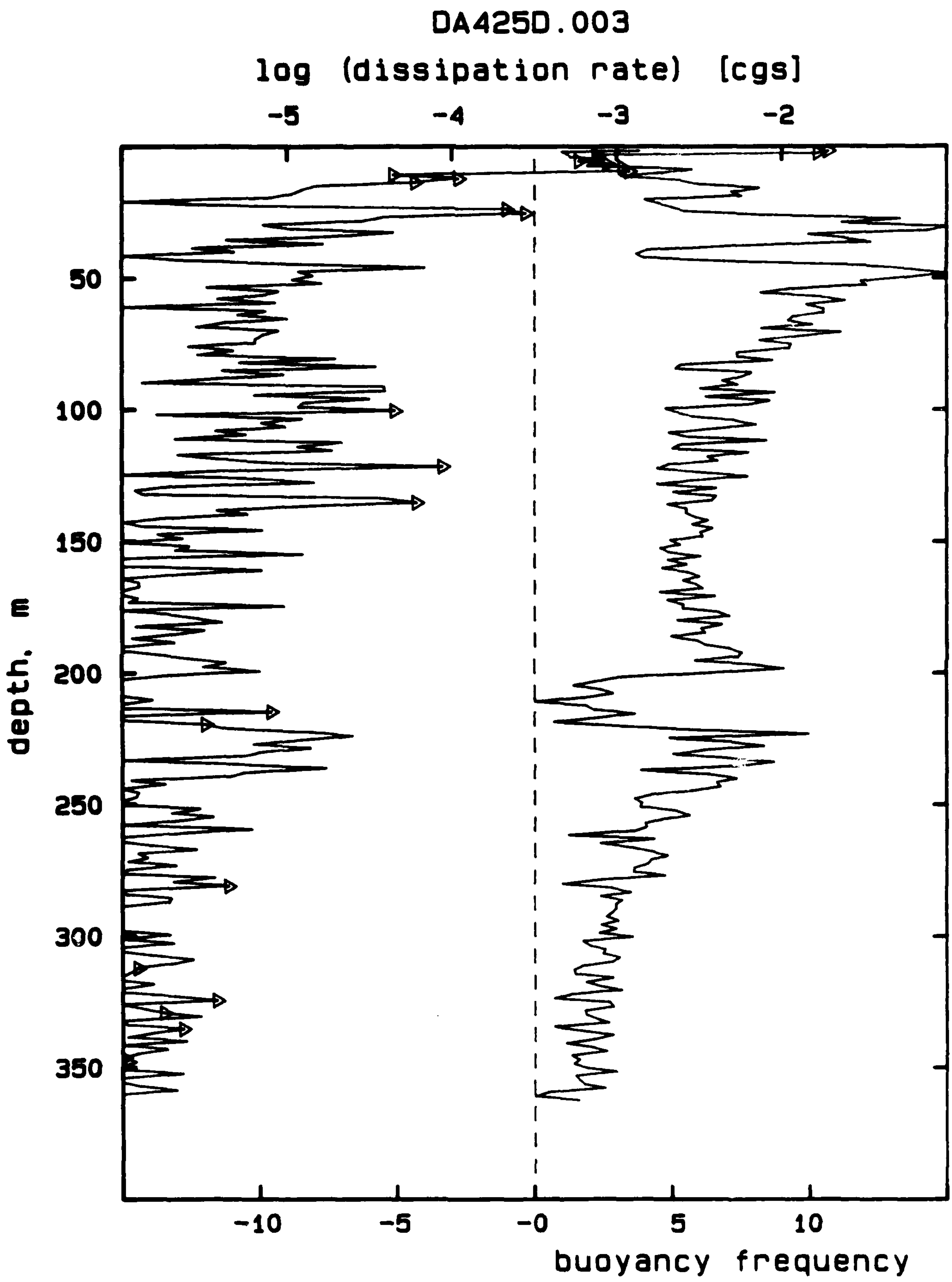
DA425C.005
log (dissipation rate) [cgs]
-5
-4
-3
-2
depth. m
50
100
150
200
250
300
350
-10
-5
-0
5
10
buoyancy frequency

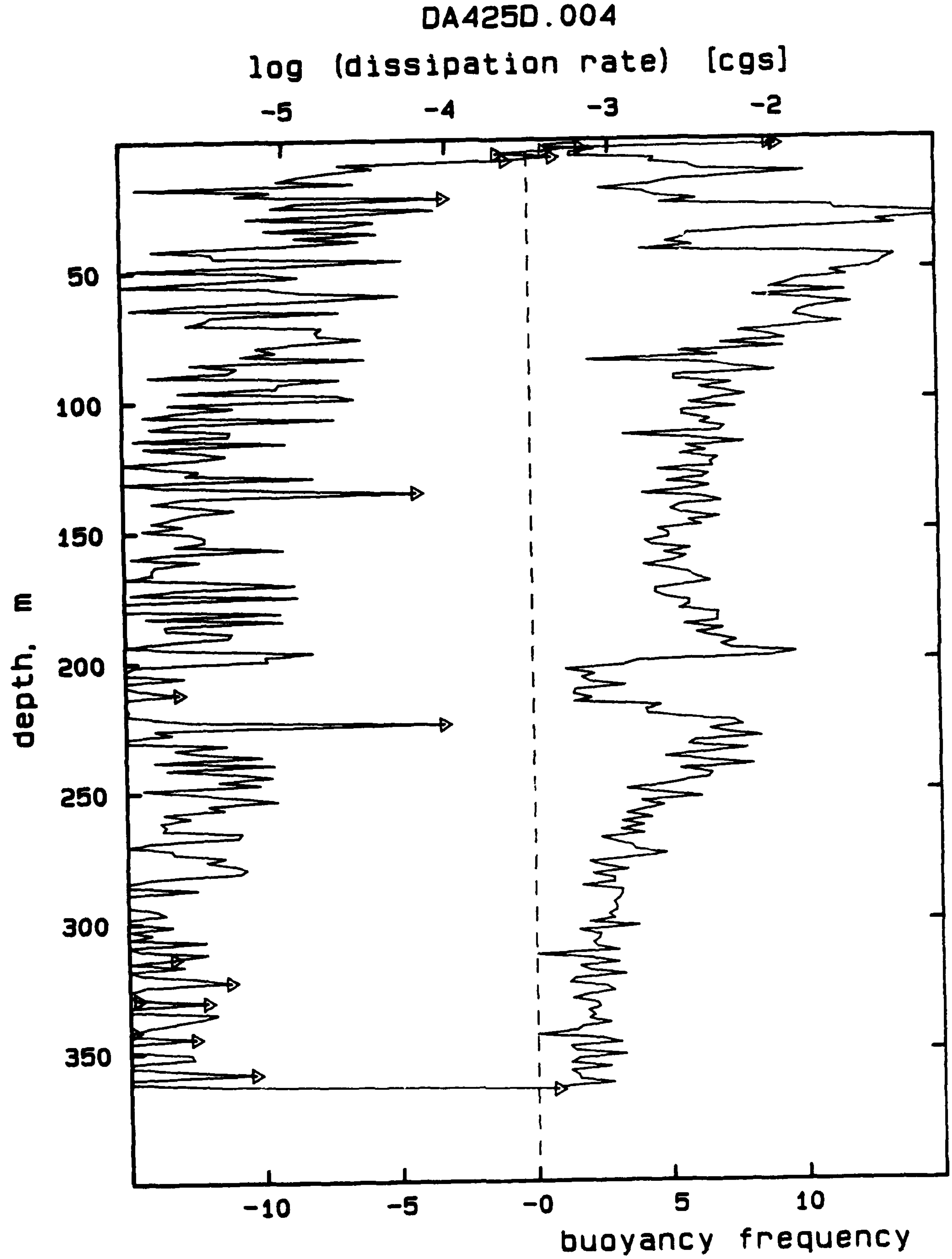

DA425C.006
log (dissipation rate) [cgs]
-5
-4
-3
-2
50
100
150
200
250
300
350
depth. m
-10
-5
-0
5
10
buoyancy frequency

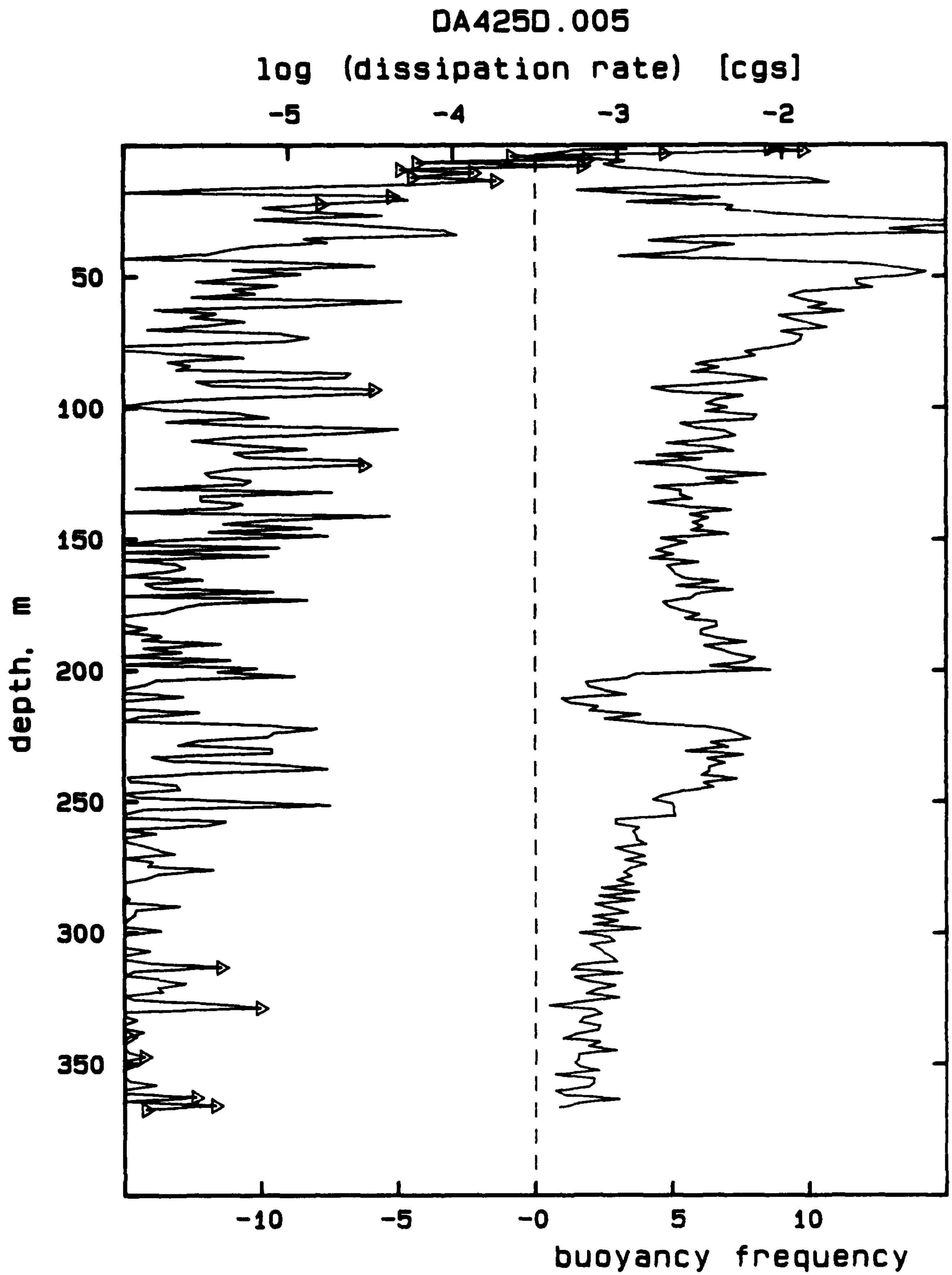

DA425C.007
log (dissipation rate) [cgs]
-5
-4
-3
-2
50
100
150
200
250
300
350
depth. m
-10
-5
-0
0
5
10
buoyancy frequency

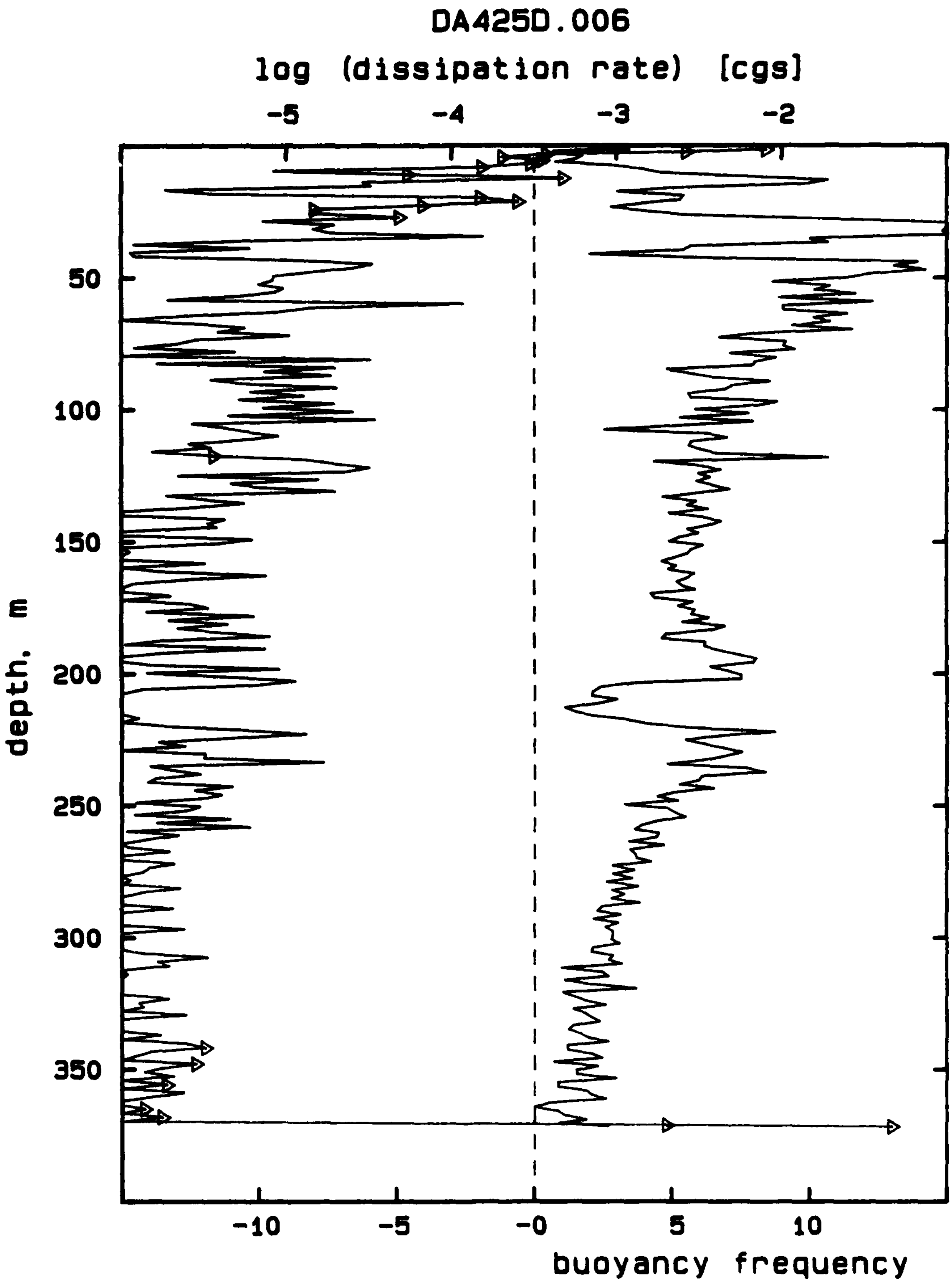

DA425D.001
log (dissipation rate) [cgs]
-5
-4
-3
-2
depth. m
50
100
150
200
250
300
350
-10
-5
-0
5
10
buoyancy frequency

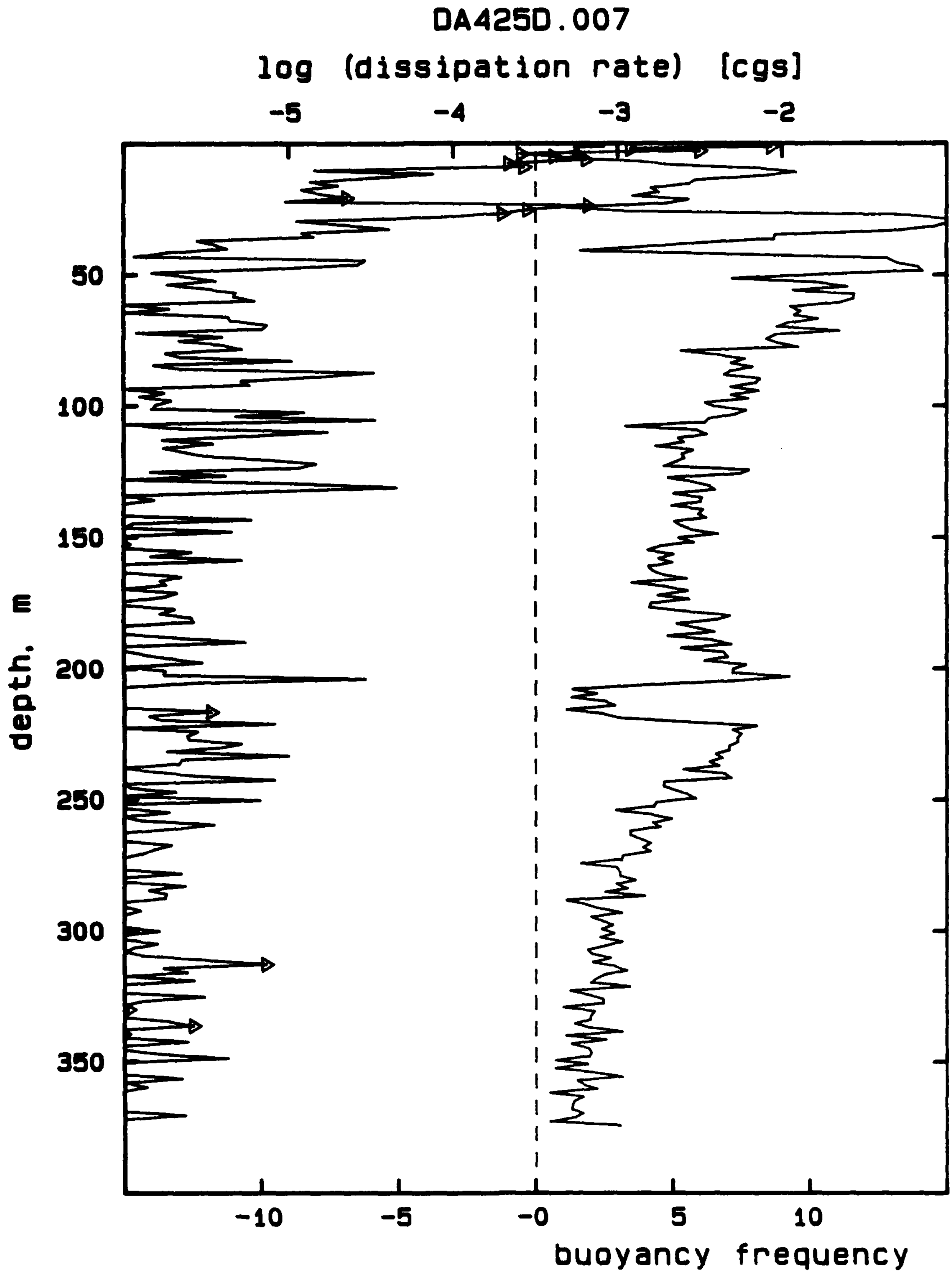

DA425D.002
log (dissipation rate) [cgs]
-5
-4
-3
-2
50
100
150
200
250
300
350
depth, m
-10
-5
-0
5
10
buoyancy frequency

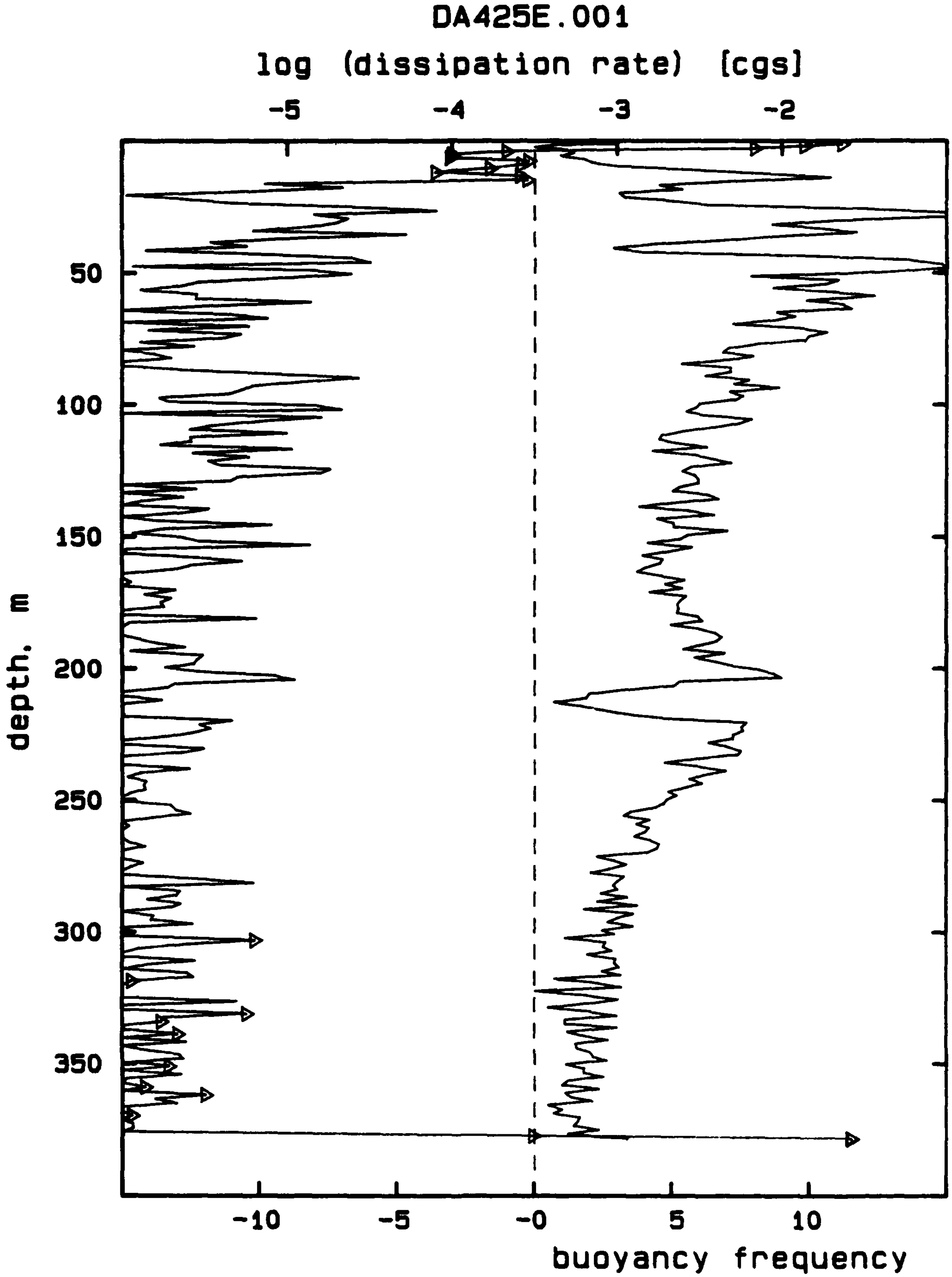

DA425D.003
log (dissipation rate) [cgs]
-5
-4
-3
-2
depth, m
50
100
150
200
250
300
350
-10
-5
-0
5
10
buoyancy frequency

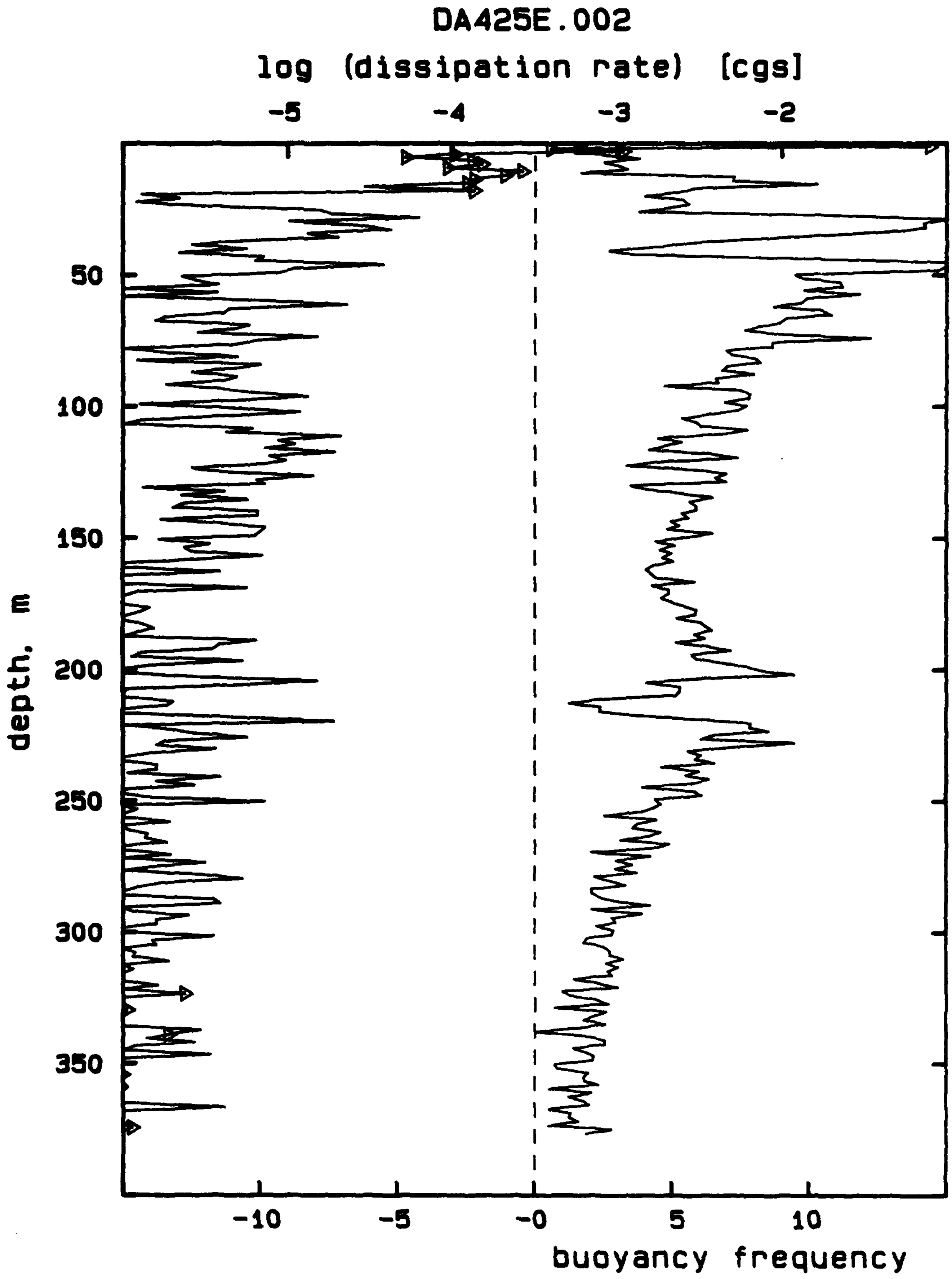

DA425D.004
log (dissipation rate) [cgs]
-5
-4
-3
-2
depth, m
50
100
150
200
250
300
350
-10
-5
-0
5
10
buoyancy frequency

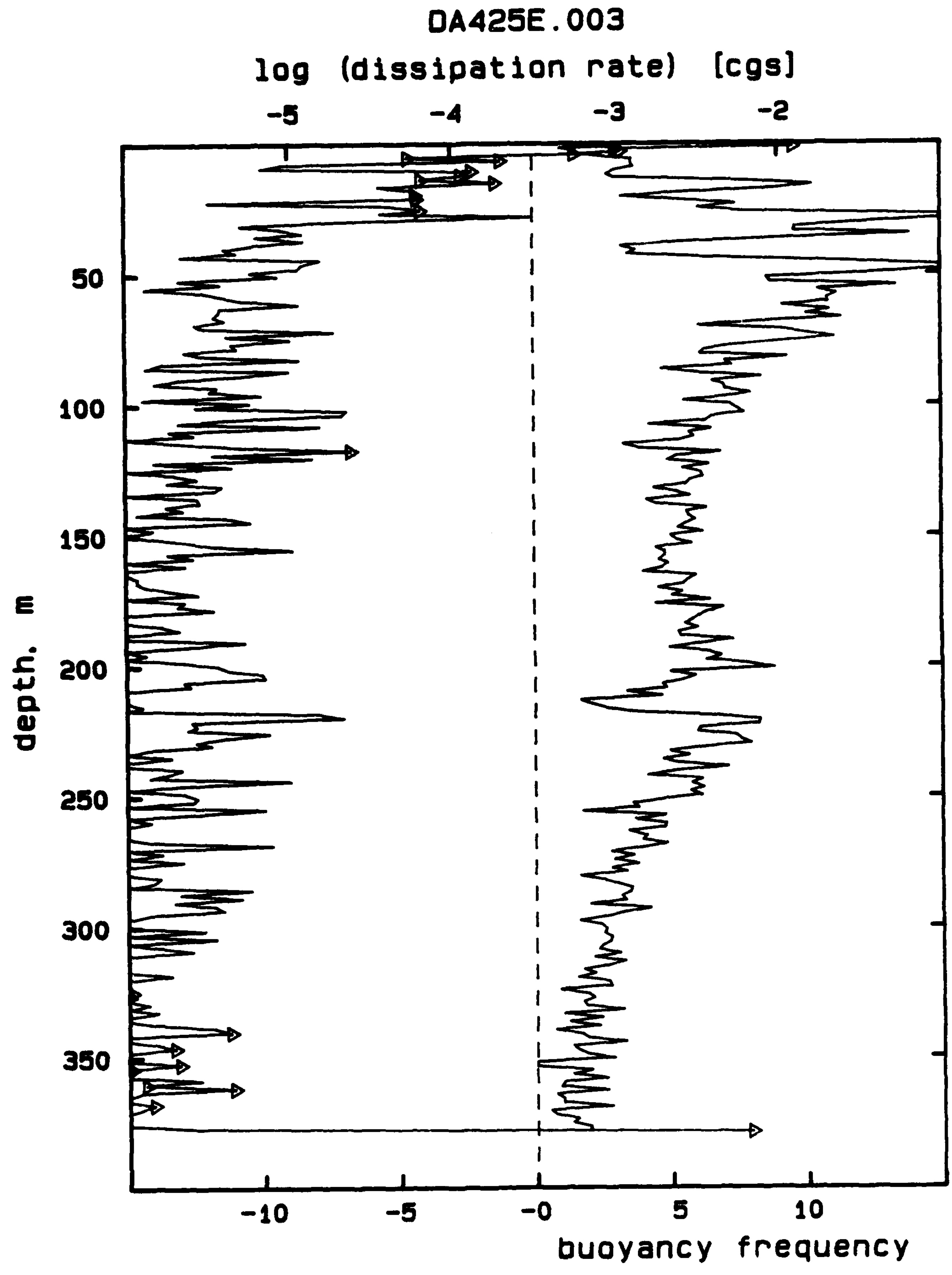

DA425D.005
log (dissipation rate) [cgs]
-5
-4
-3
-2
depth. m
50
100
150
200
250
300
350
-10
-5
-0
5
10
buoyancy frequency

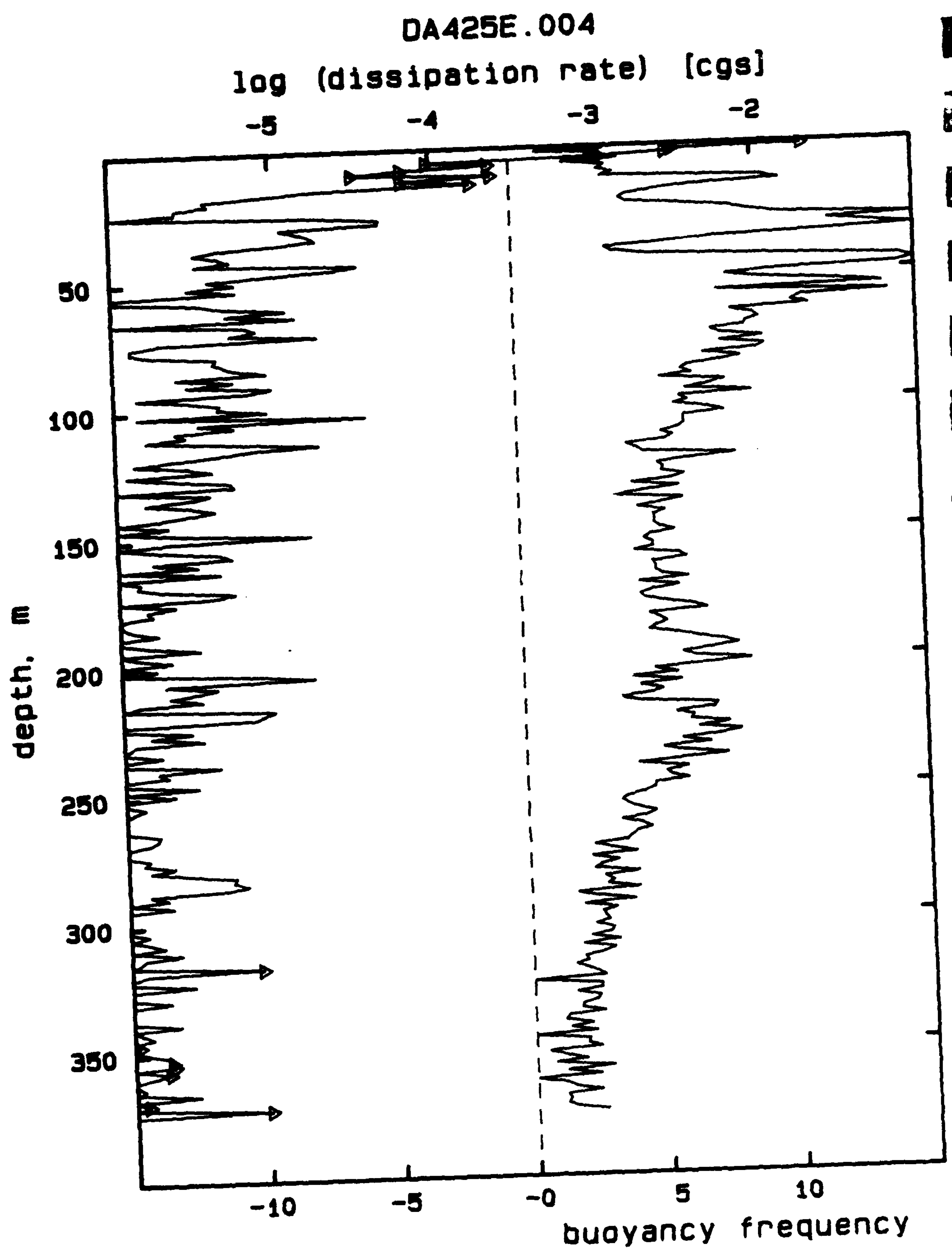

DA425D.006
log (dissipation rate) [cgs]
-5
-4
-3
-2
depth, m
50
100
150
200
250
300
350
-10
-5
-0
5
10
buoyancy frequency

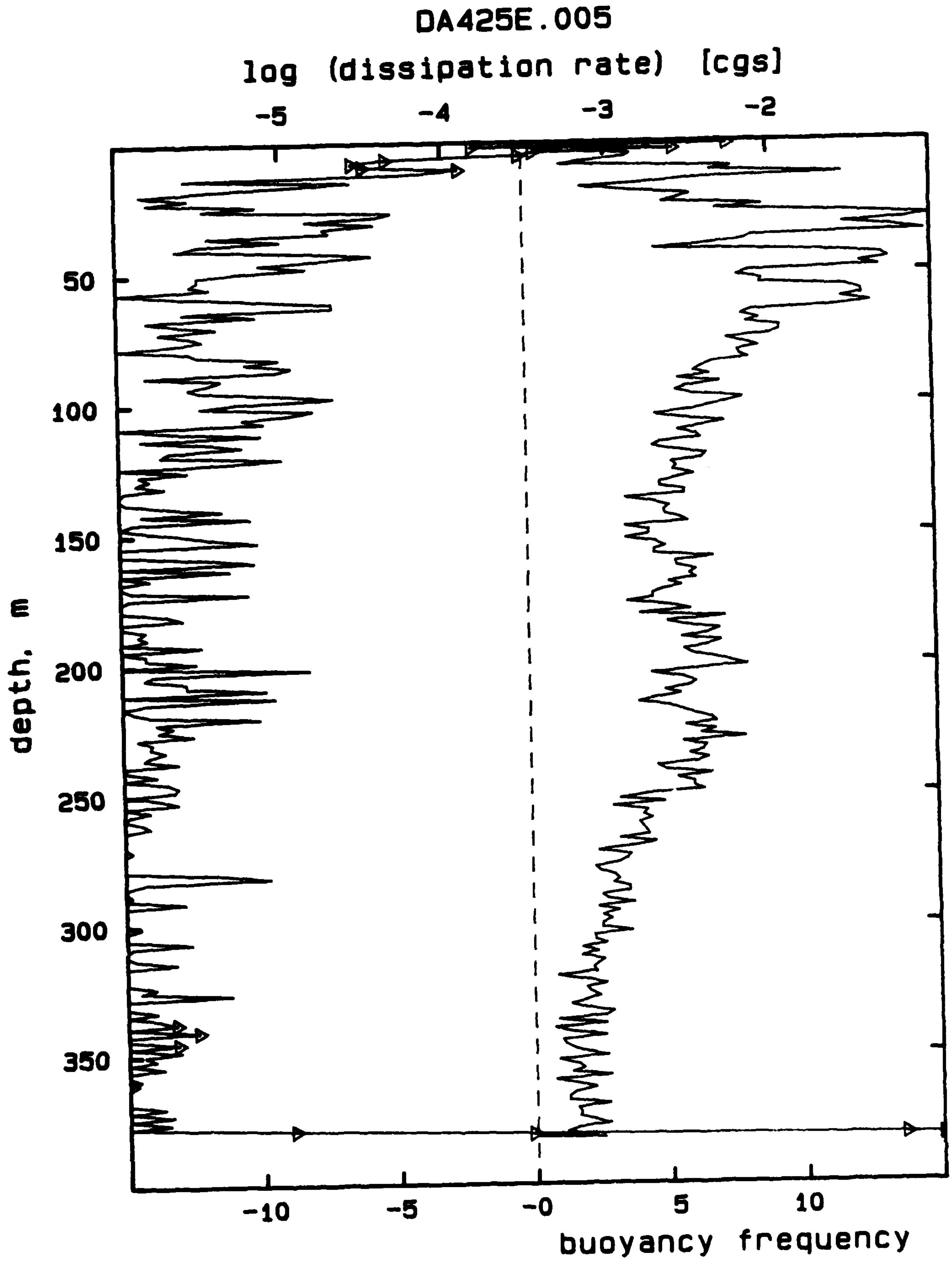

DA425D.007
log (dissipation rate) [cgs]
-5
-4
-3
-2
50
100
150
200
250
300
350
depth. m
-10
-5
-0
5
10
buoyancy frequency

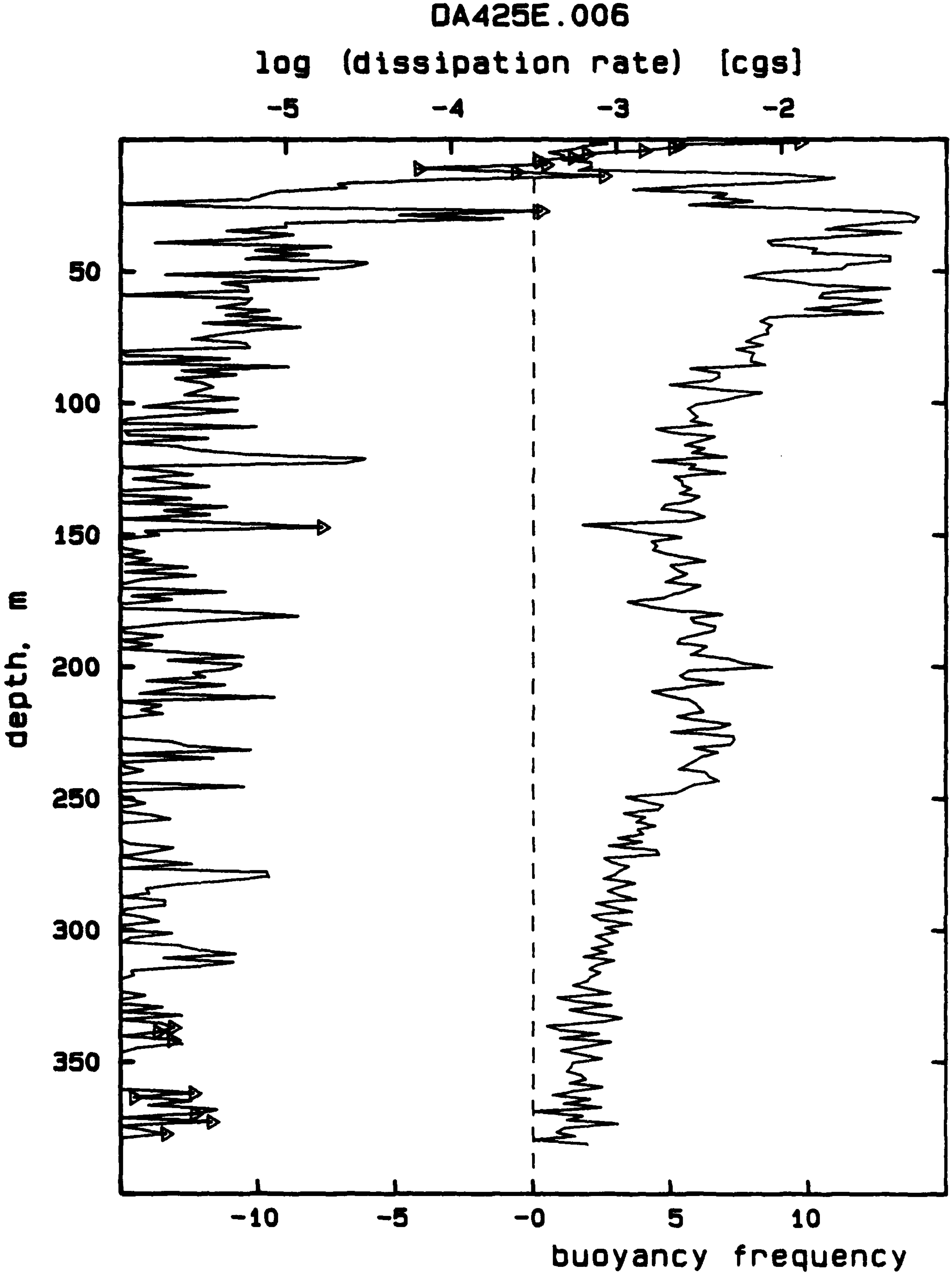

DA425E.001
log (dissipation rate) [cgs]
-5
-4
-3
-2
depth, m
50
100
150
200
250
300
350
-10
-5
-0
5
10
buoyancy frequency

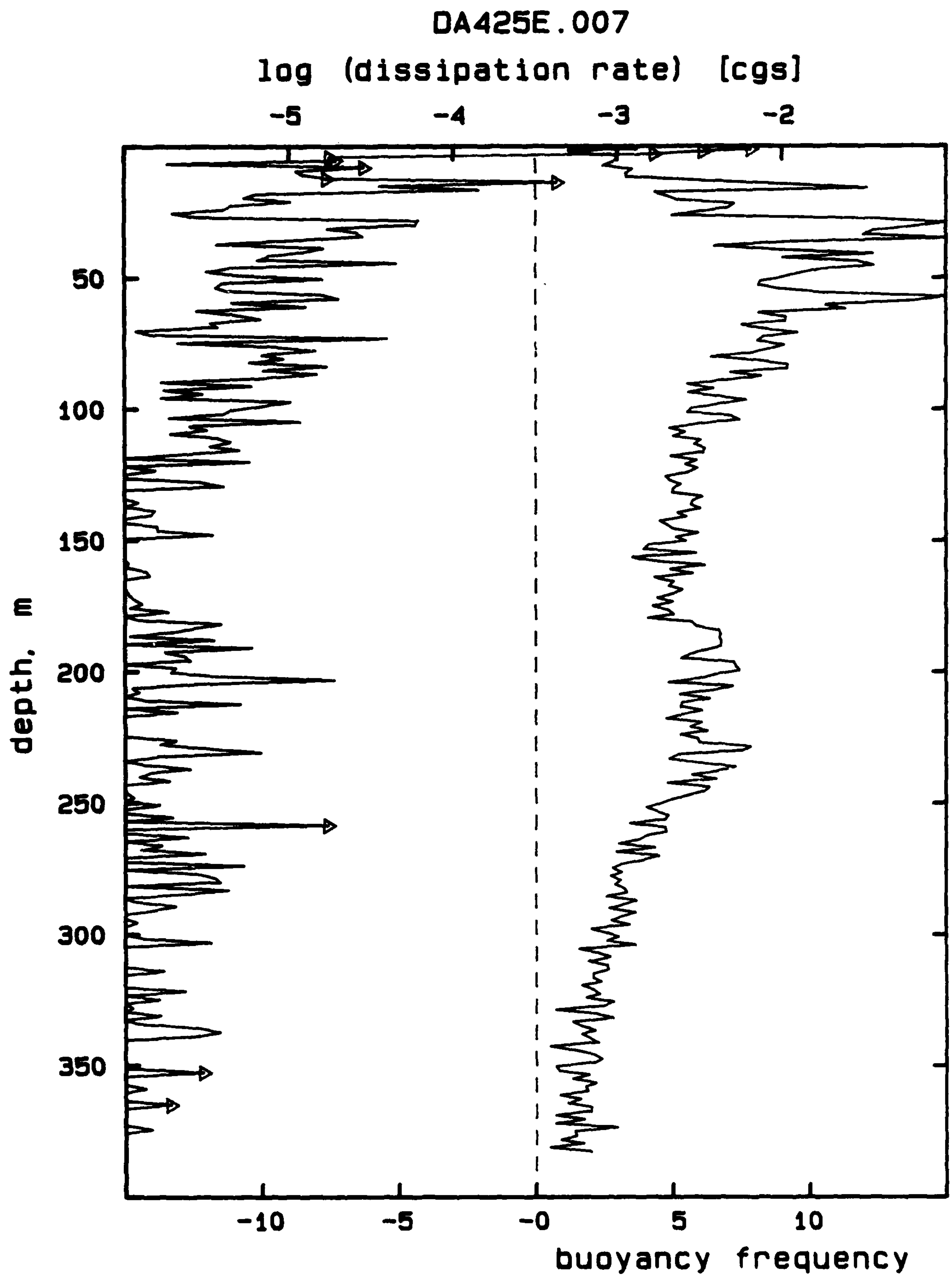

DA425E.002
log (dissipation rate) [cgs]
-5
-4
-3
-2
depth, m
50
100
150
200
250
300
350
-10
-5
-0
5
10
buoyancy frequency

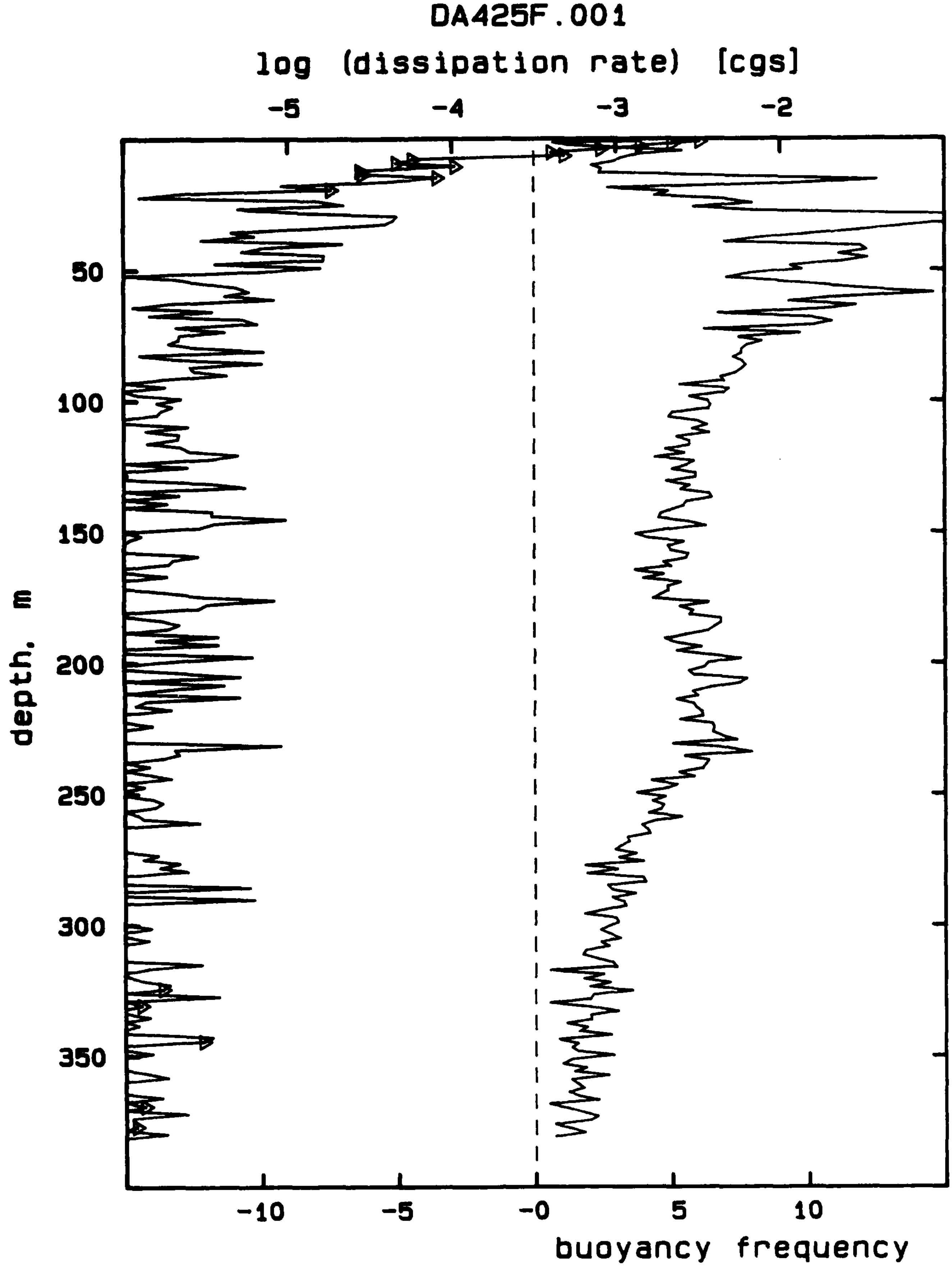

DA425E.003
log (dissipation rate) [cgs]
-5
-4
-3
-2
50
100
150
200
250
300
350
depth. m
-10
-5
-0
5
10
buoyancy frequency

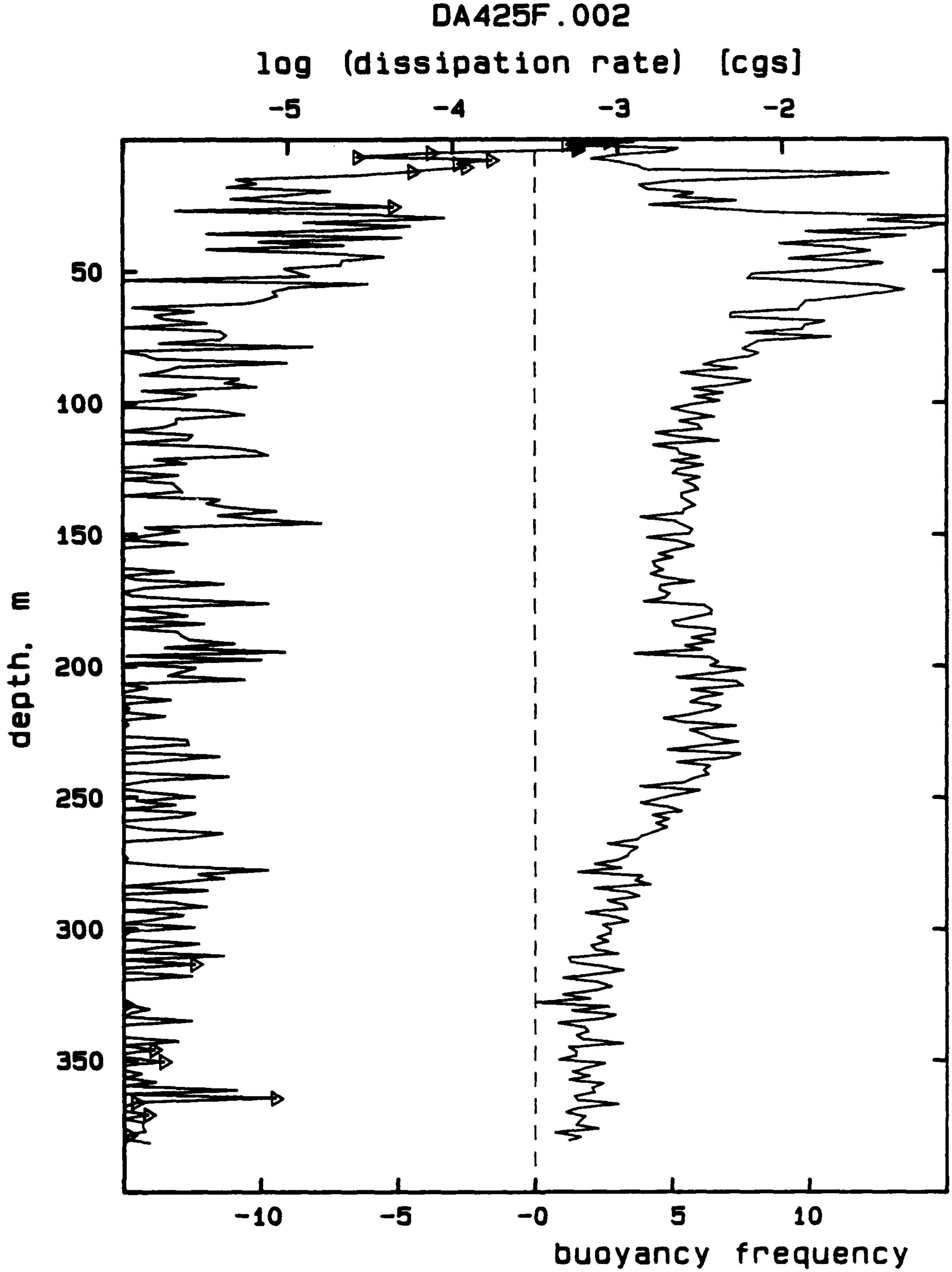

DA425E.004
log (dissipation rate) [cgs]
-5
-4
-3
-2
50
100
150
200
250
300
350
depth, m
-10
-5
-0
5
10
buoyancy frequency

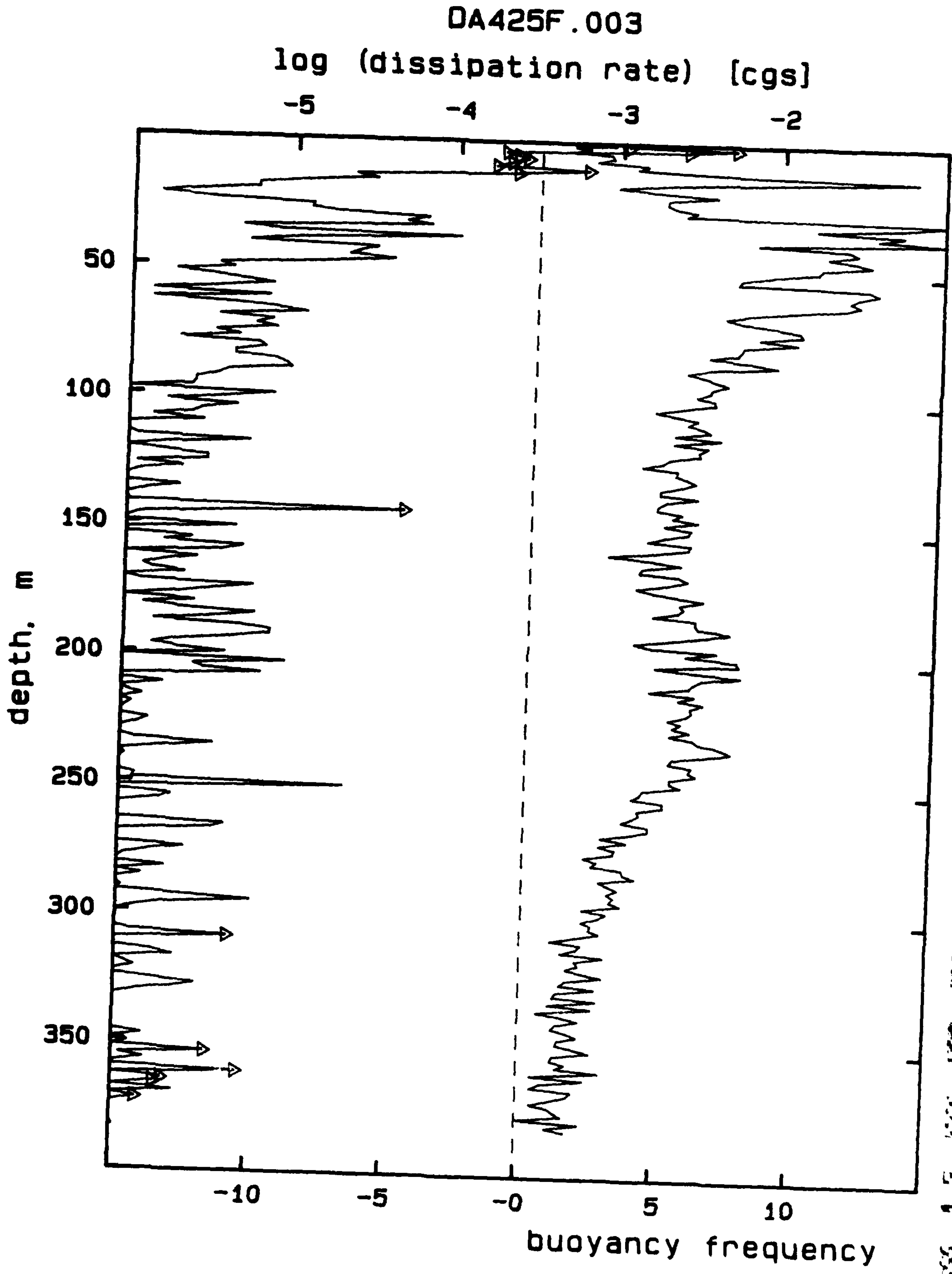

DA425E.005
log (dissipation rate) [cgs]
-5
-4
-3
-2
depth, m
50
100
150
200
250
300
350
-10
-5
-0
5
10
buoyancy frequency

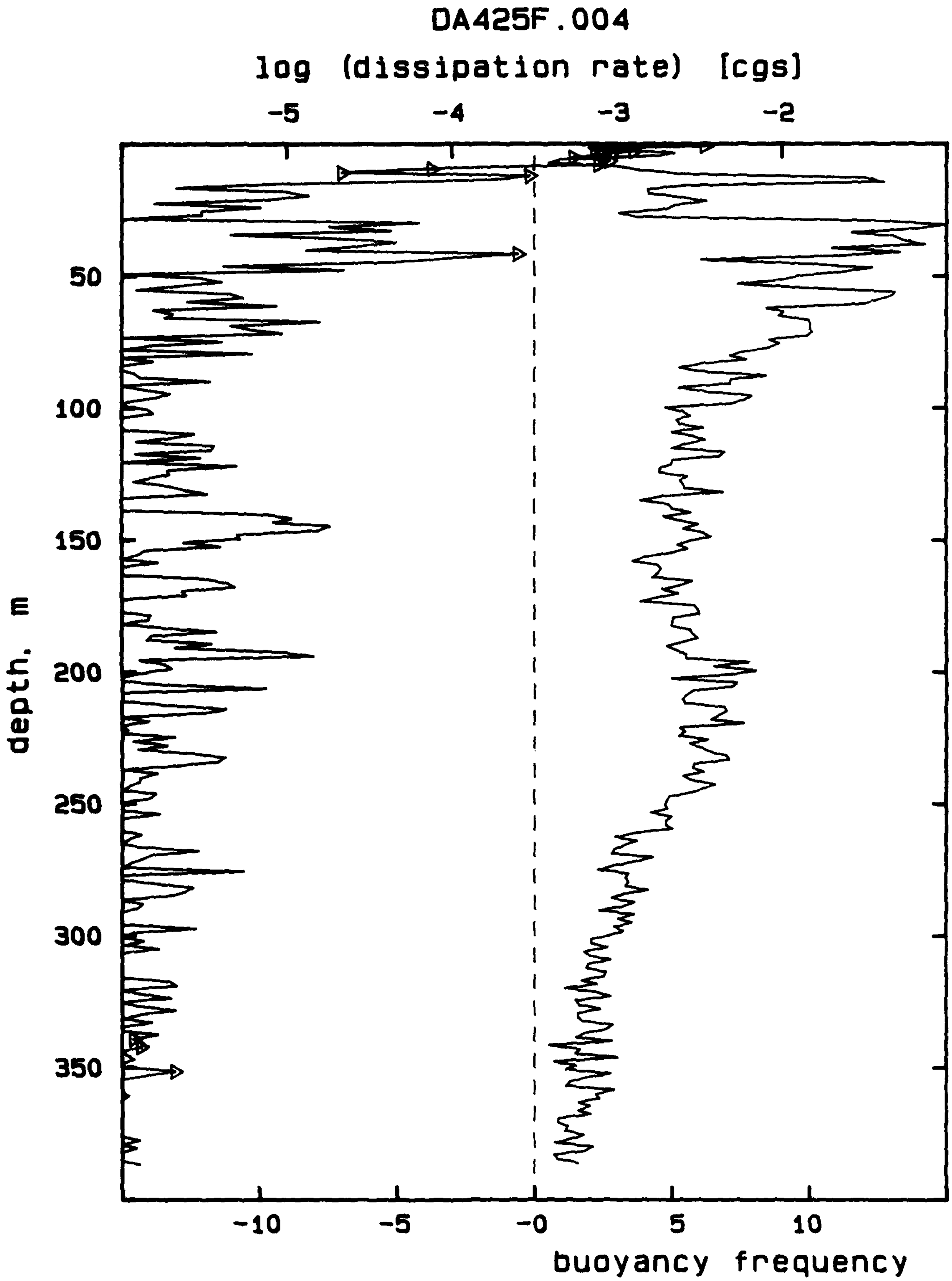

DA425E.006
log (dissipation rate) [cgs]
-5
-4
-3
-2
depth, m
50
100
150
200
250
300
350
-10
-5
-0
5
10
buoyancy frequency

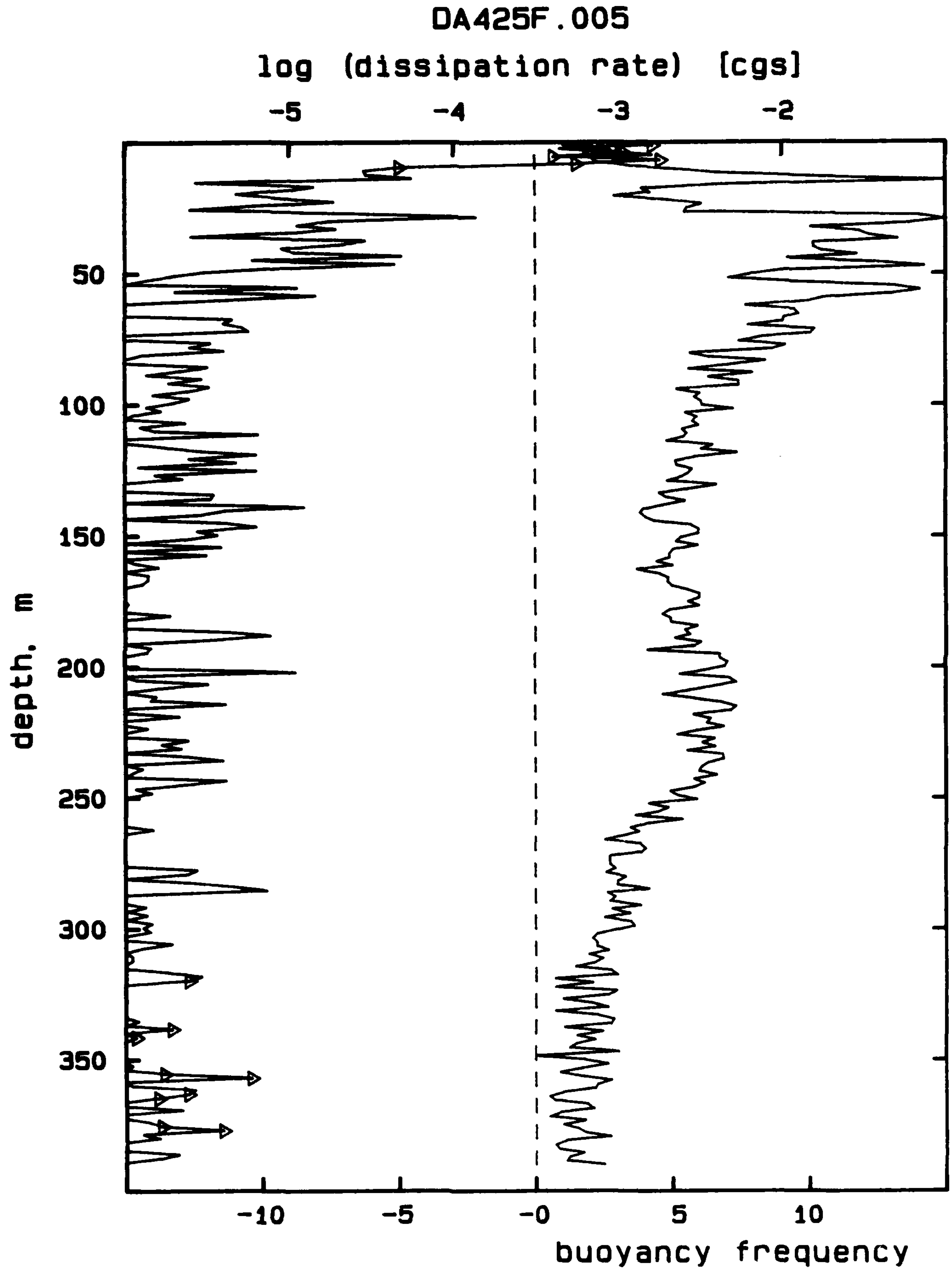

DA425E.007
log (dissipation rate) [cgs]
-5
-4
-3
-2
depth, m
50
100
150
200
250
300
350
-10
-5
-0
5
10
buoyancy frequency

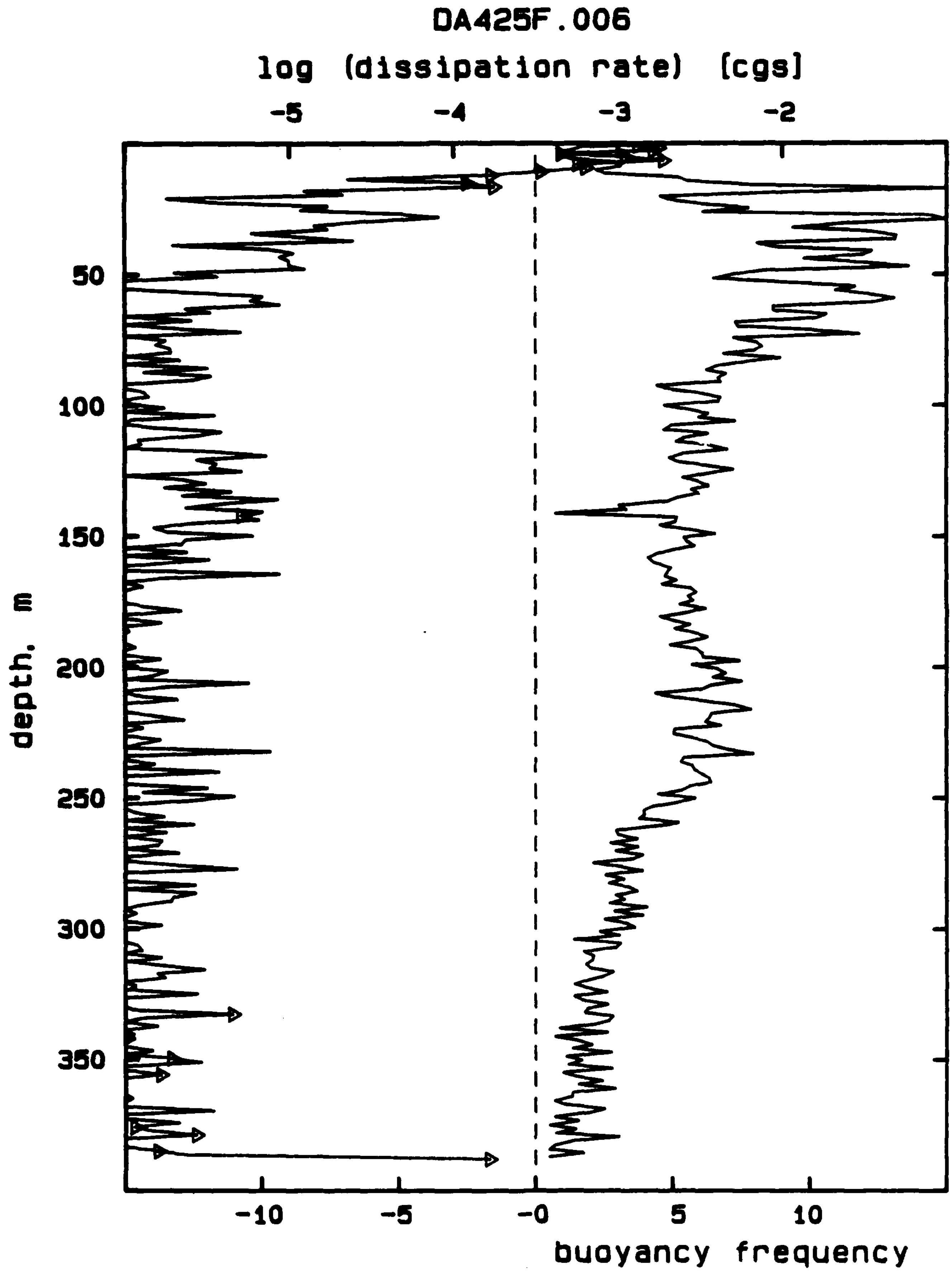

DA425F.001
log (dissipation rate) [cgs]
-5
-4
-3
-2
50
100
150
200
250
300
350
depth, m
-10
-5
-0
5
10
buoyancy frequency

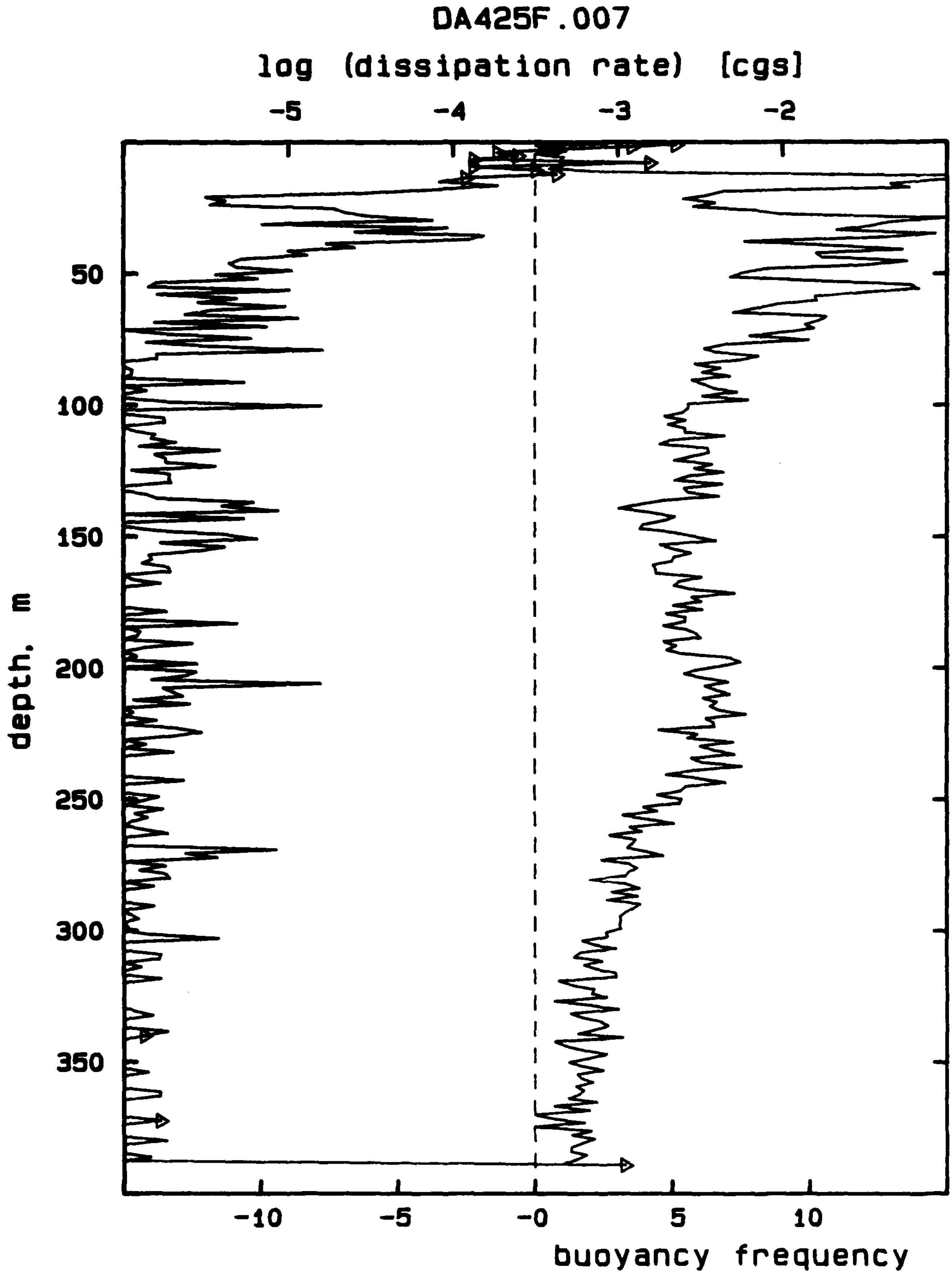

DA425F.002
log (dissipation rate) [cgs]
-5
-4
-3
-2
50
100
150
200
250
300
350
depth, m
-10
-5
-0
5
10
buoyancy frequency

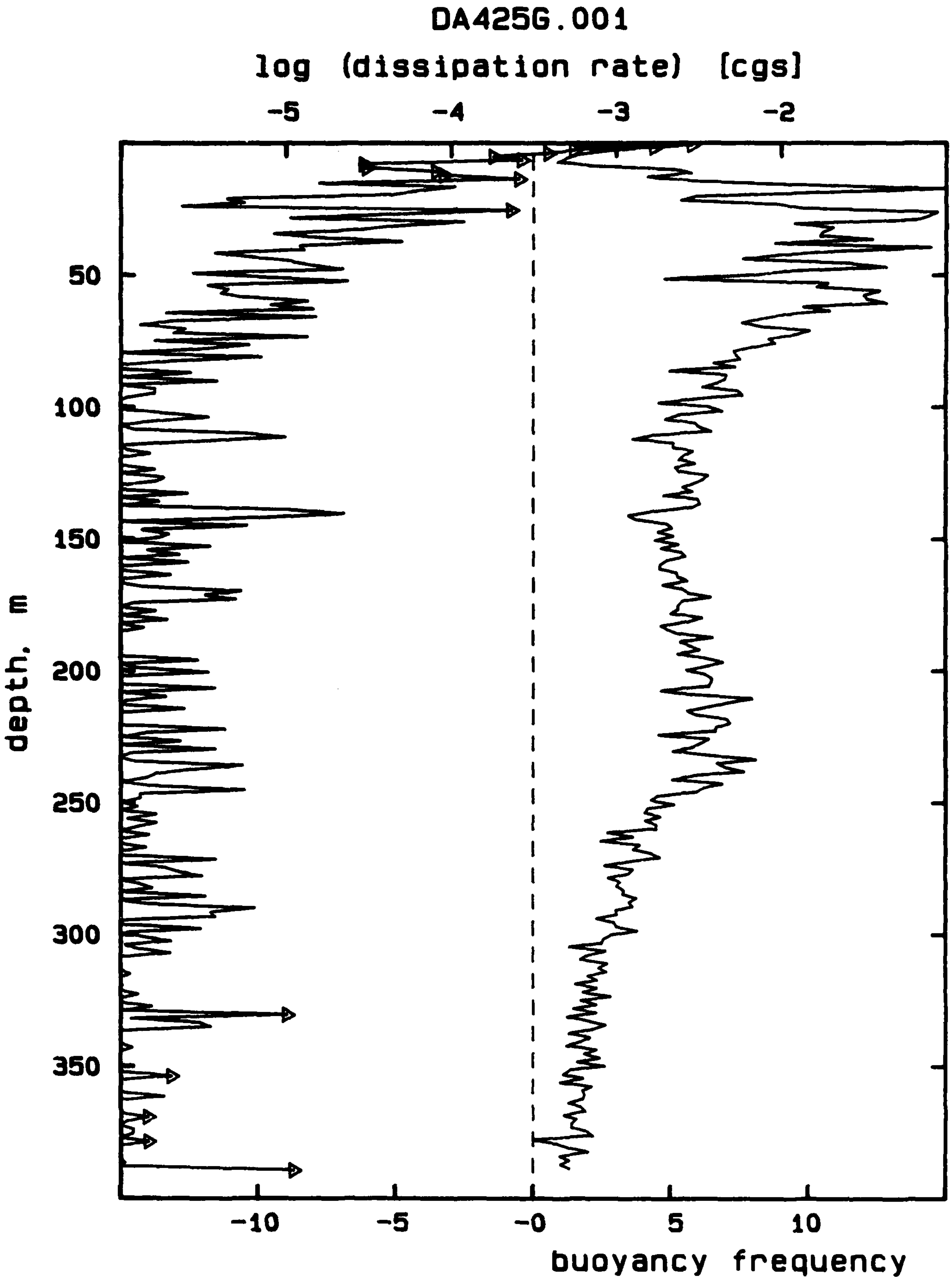

DA425F.003
log (dissipation rate) [cgs]
-5
-4
-3
-2
depth, m
50
100
150
200
250
300
350
-10
-5
-0
5
10
buoyancy frequency

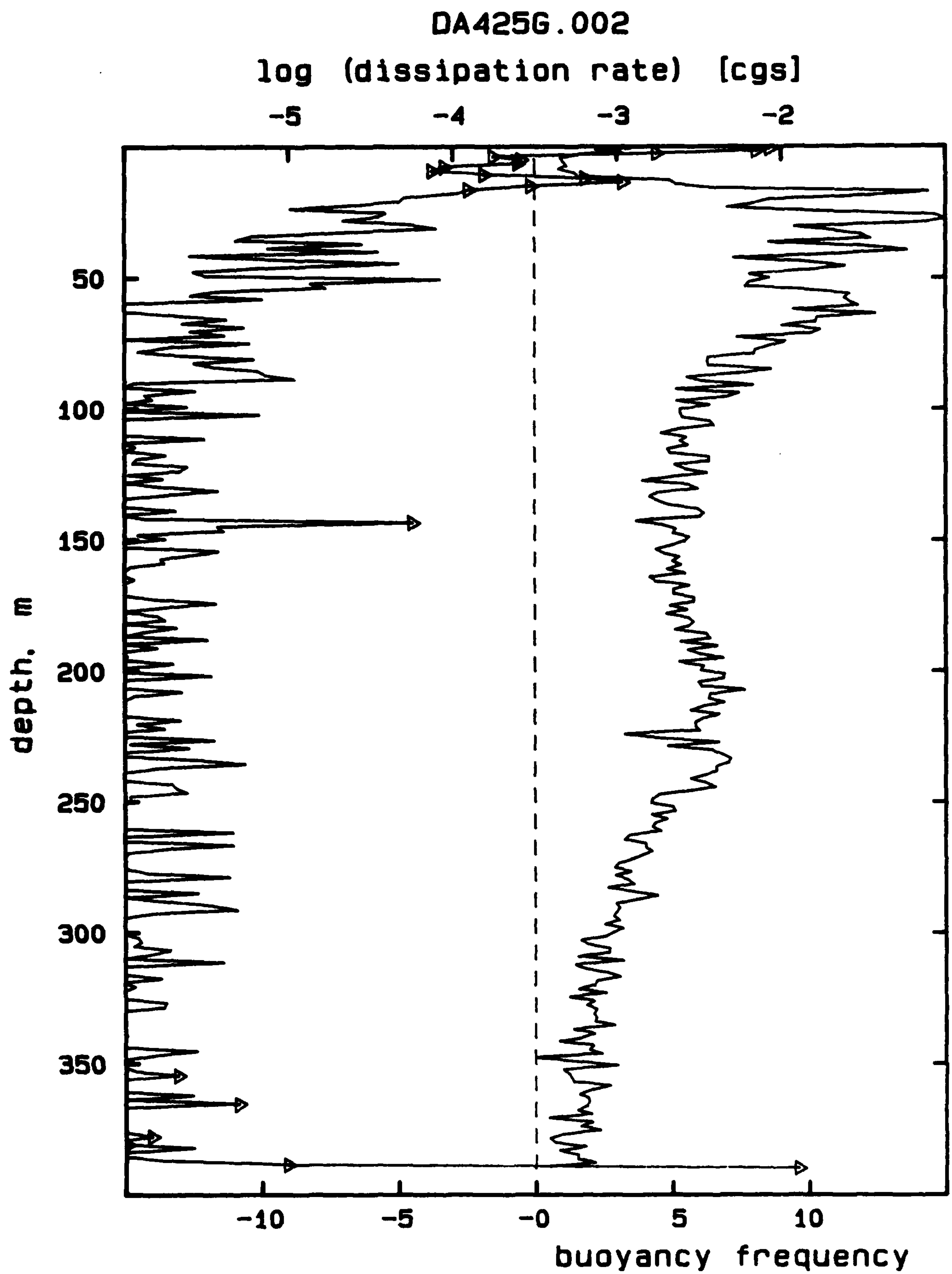

DA425F.004
log (dissipation rate) [cgs]
-5
-4
-3
-2
depth, m
50
100
150
200
250
300
350
-10
-5
-0
5
10
buoyancy frequency

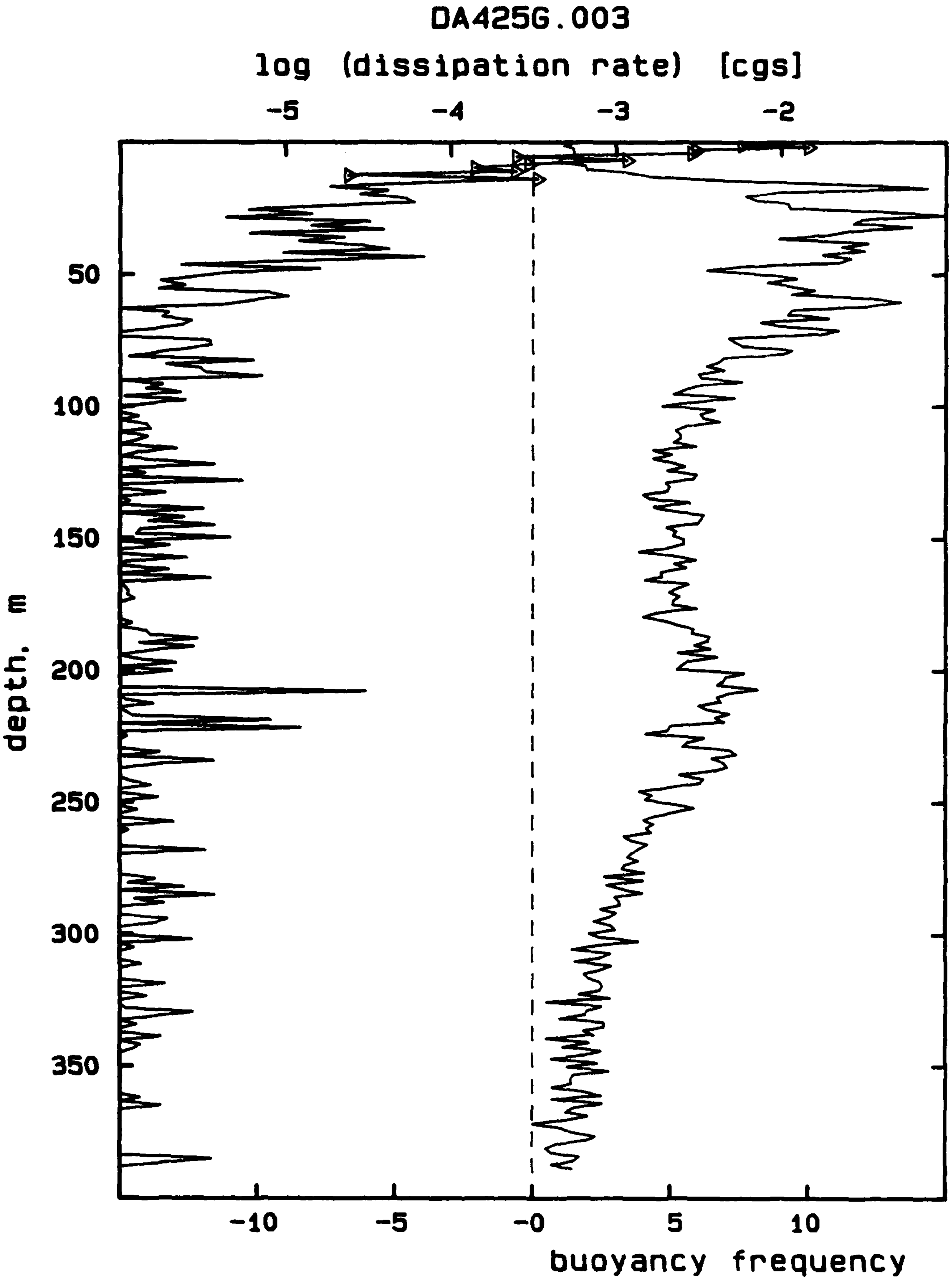

DA425F.005
log (dissipation rate) [cgs]
-5
-4
-3
-2
depth, m
50
100
150
200
250
300
350
-10
-5
-0
5
10
buoyancy frequency

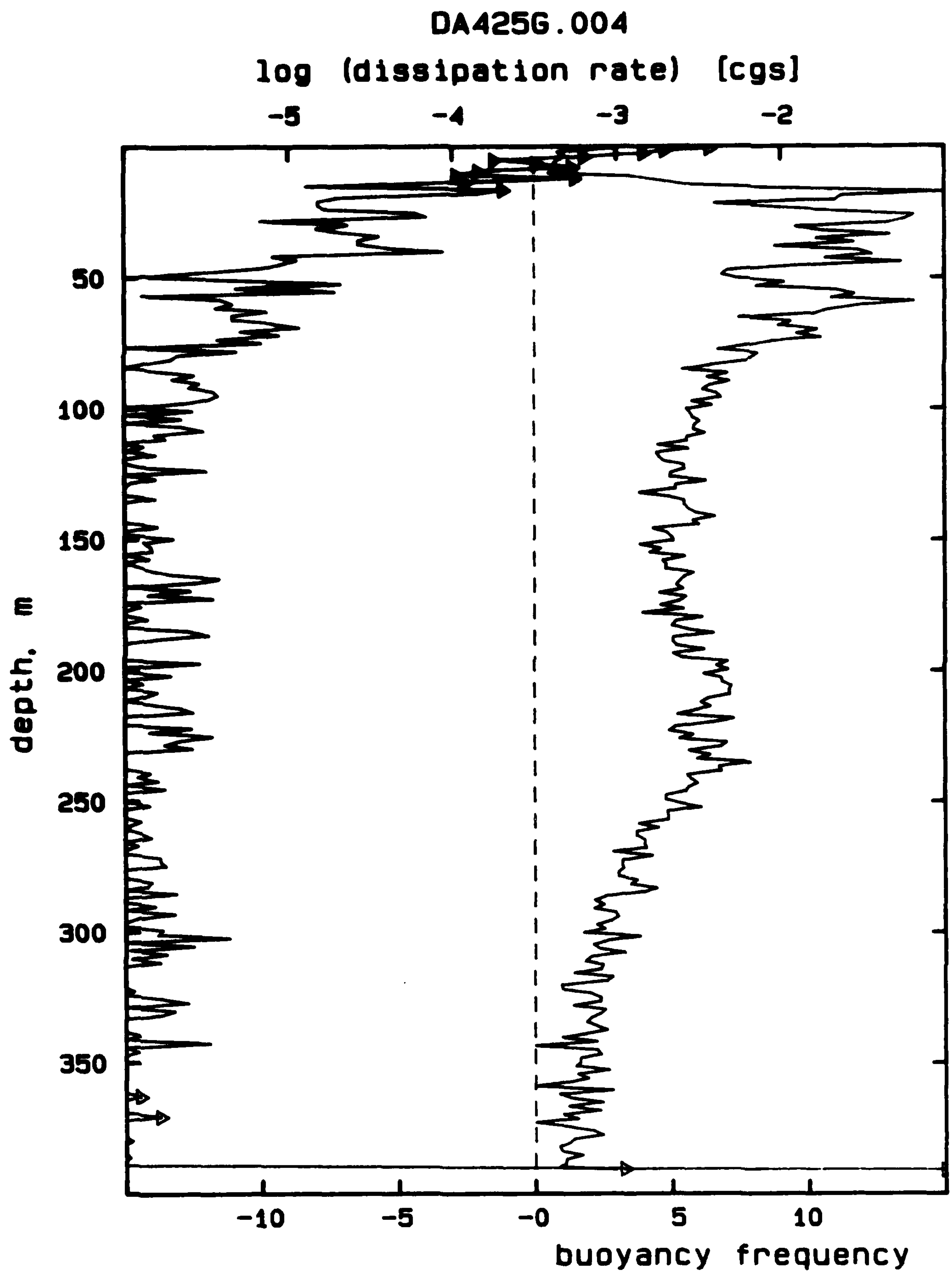

DA425F.006
log (dissipation rate) [cgs]
-5
-4
-3
-2
depth, m
50
100
150
200
250
300
350
-10
-5
-0
5
10
buoyancy frequency

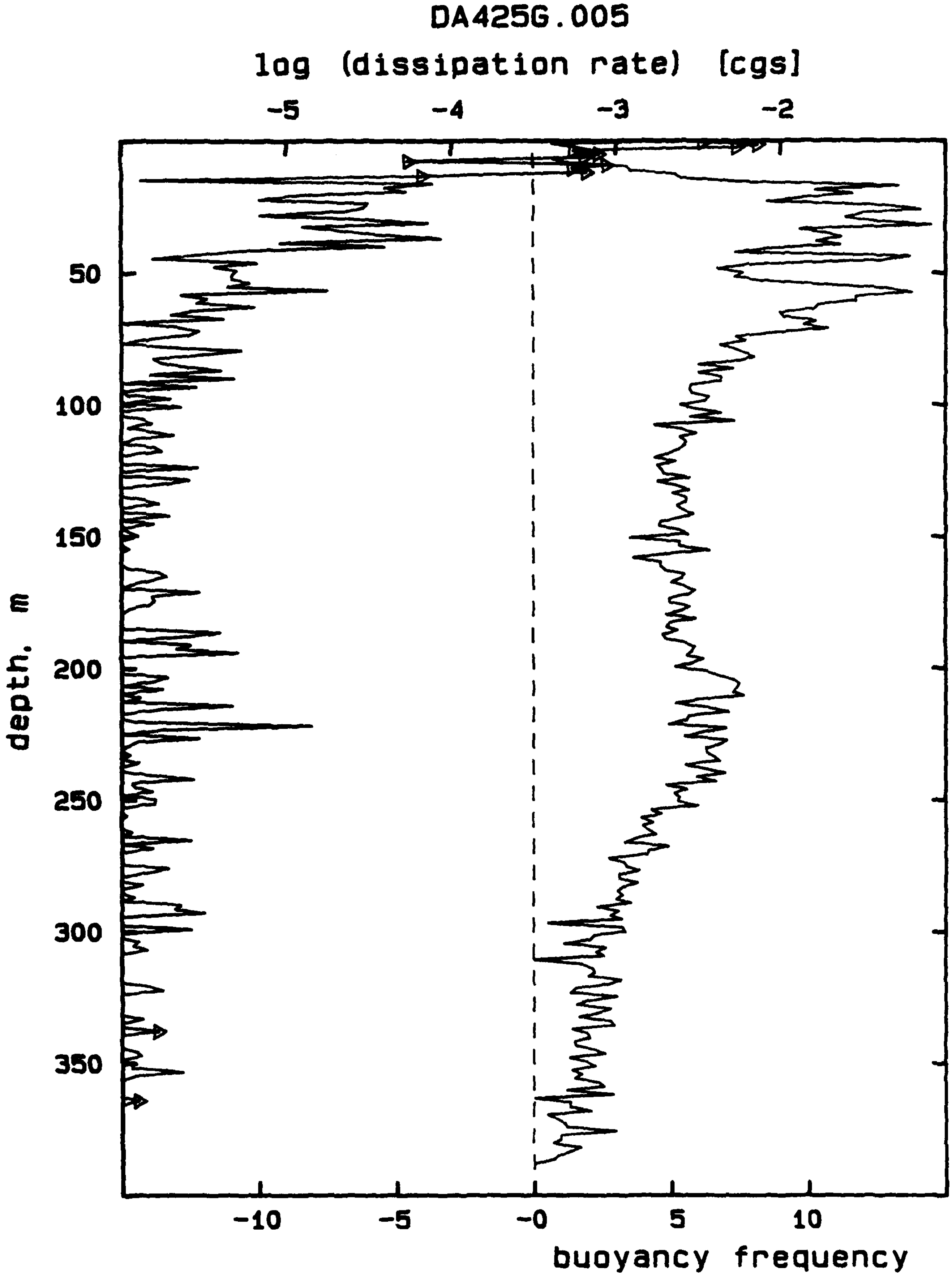

DA425F.007
log (dissipation rate) [cgs]
-5
-4
-3
-2
50
100
150
200
250
300
350
depth. m
-10
-5
-0
5
10
buoyancy frequency

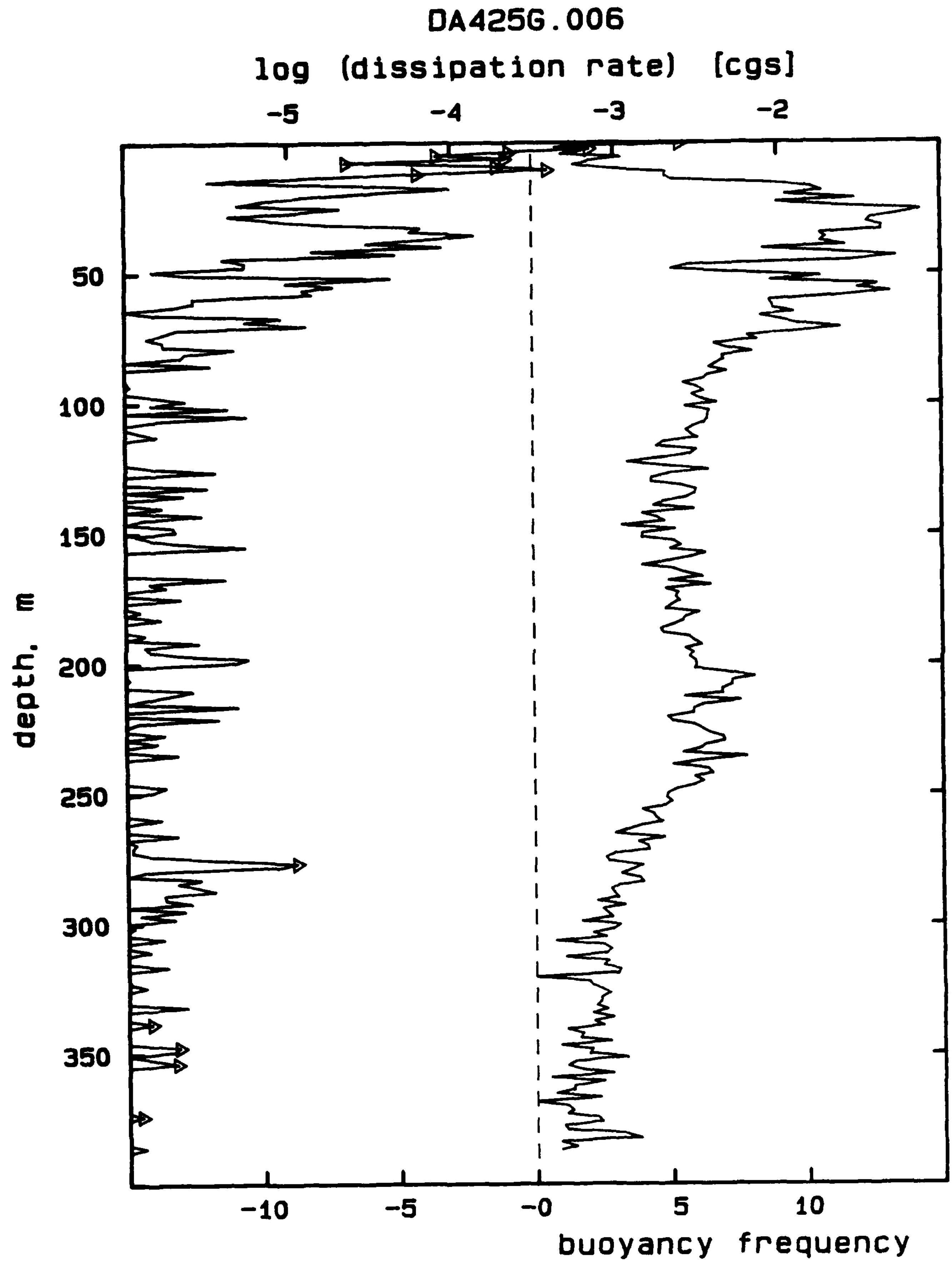

DA425G.001
log (dissipation rate) [cgs]
-5
-4
-3
-2
50
100
150
200
250
300
350
depth, m
-10
-5
-0
5
10
buoyancy frequency

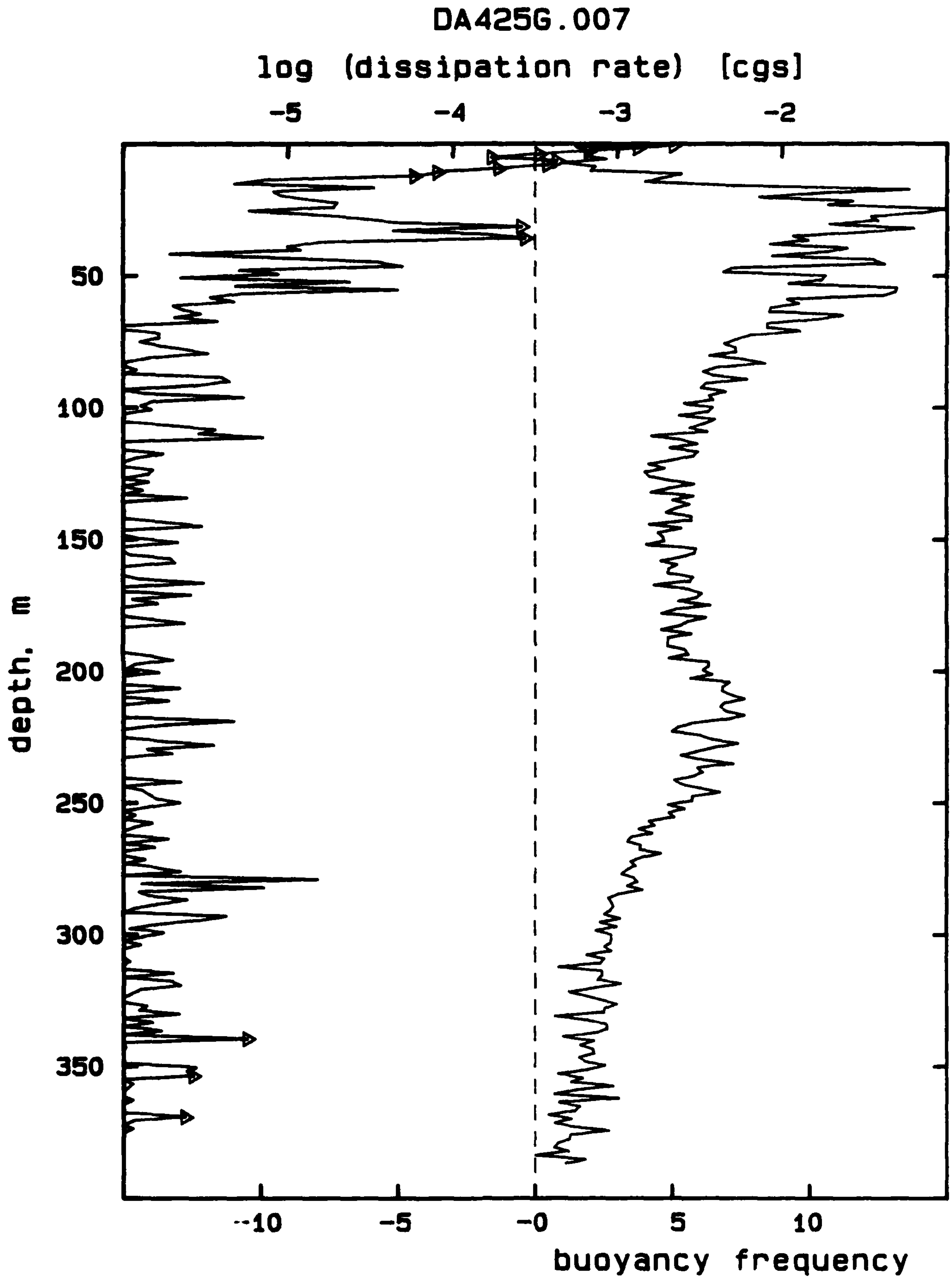

DA425G.002
log (dissipation rate) [cgs]
-5
-4
-3
-2
50
100
150
200
250
300
350
depth, m
-10
-5
-0
5
10
buoyancy frequency

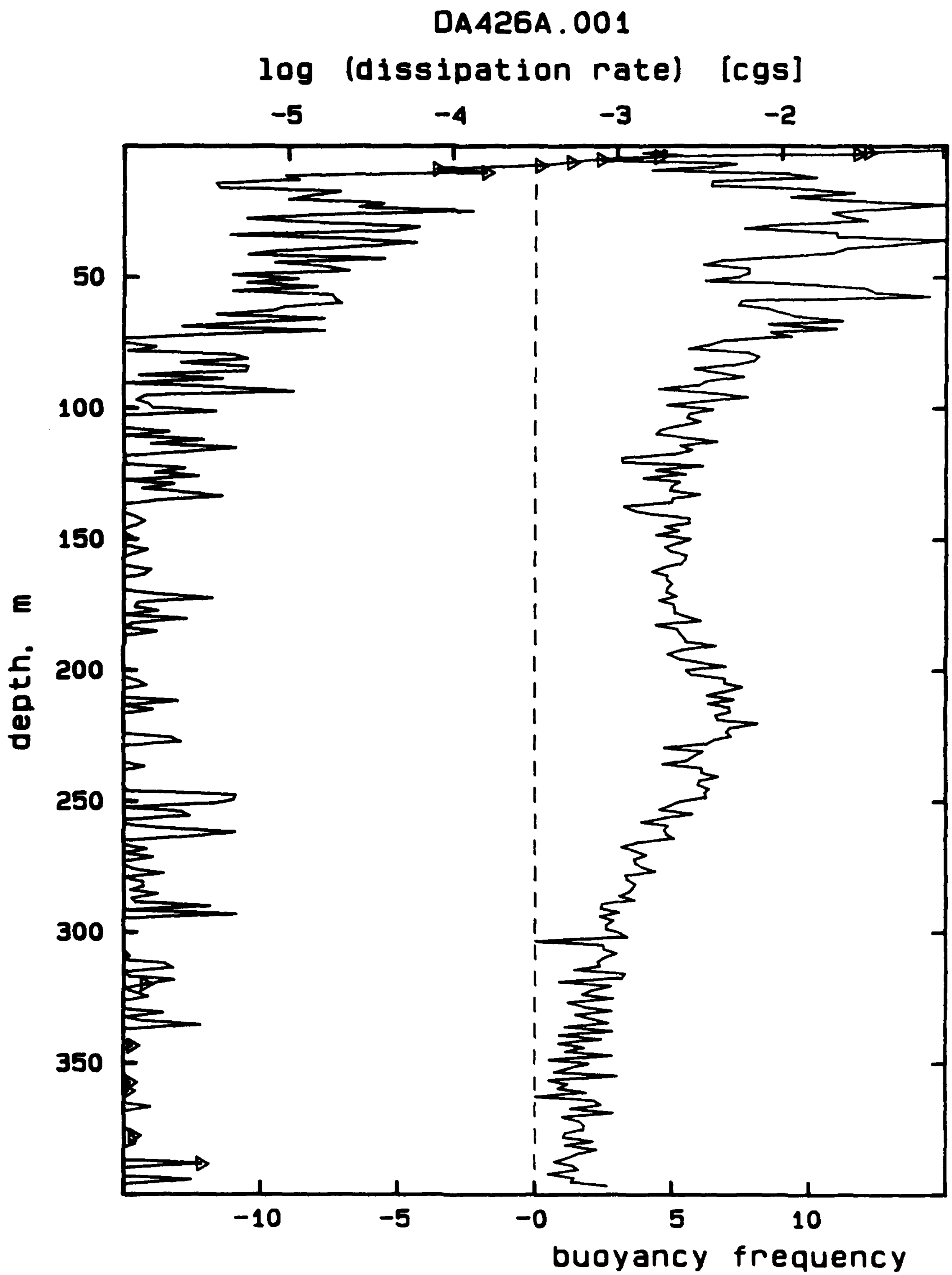

DA425G.003
log (dissipation rate) [cgs]
-5
-4
-3
-2
50
100
150
200
250
300
350
depth, m
-10
-5
-0
5
10
buoyancy frequency

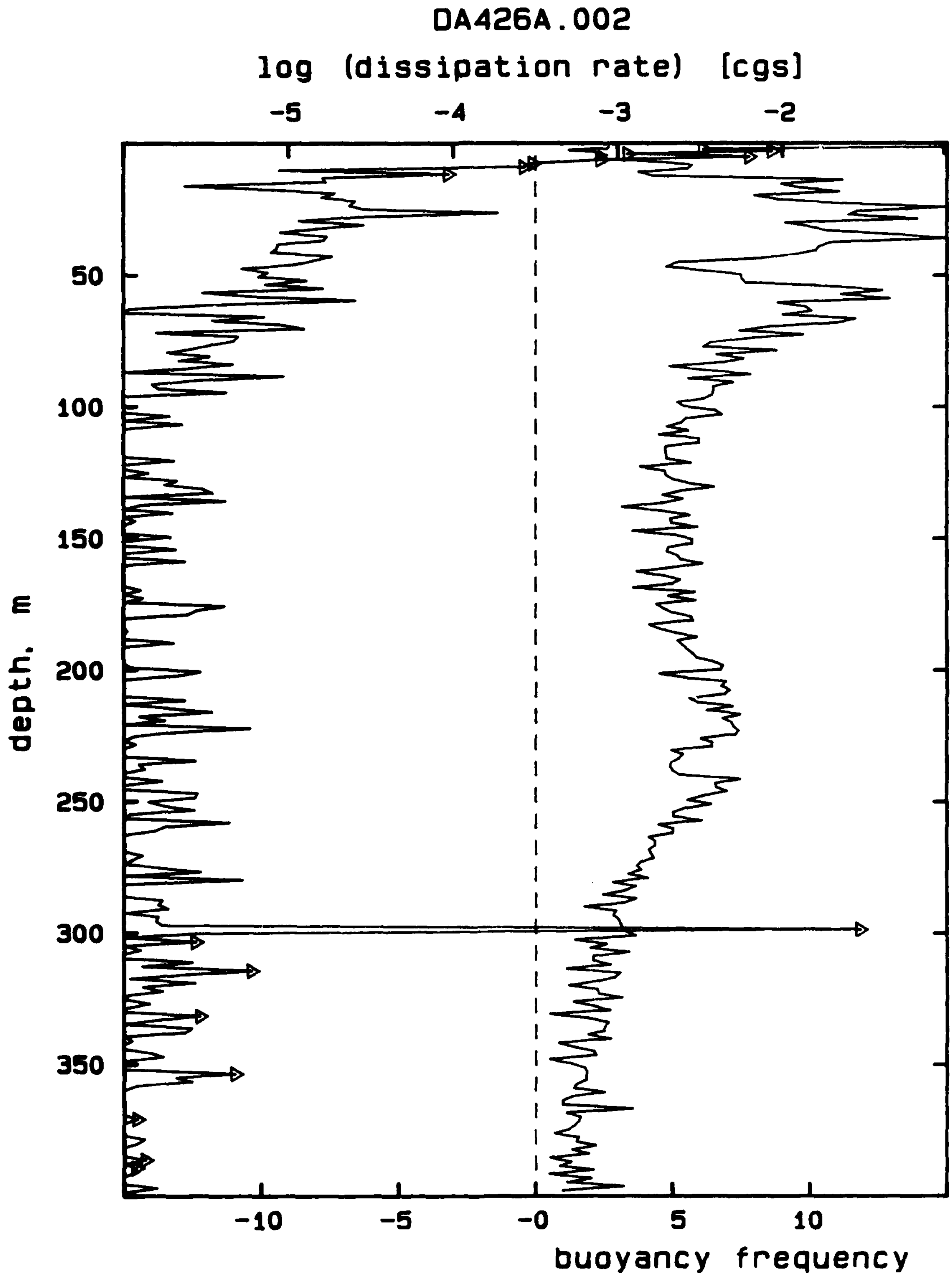

DA425G.004
log (dissipation rate) [cgs]
-5
-4
-3
-2
depth, m
50
100
150
200
250
300
350
-10
-5
-0
5
10
buoyancy frequency

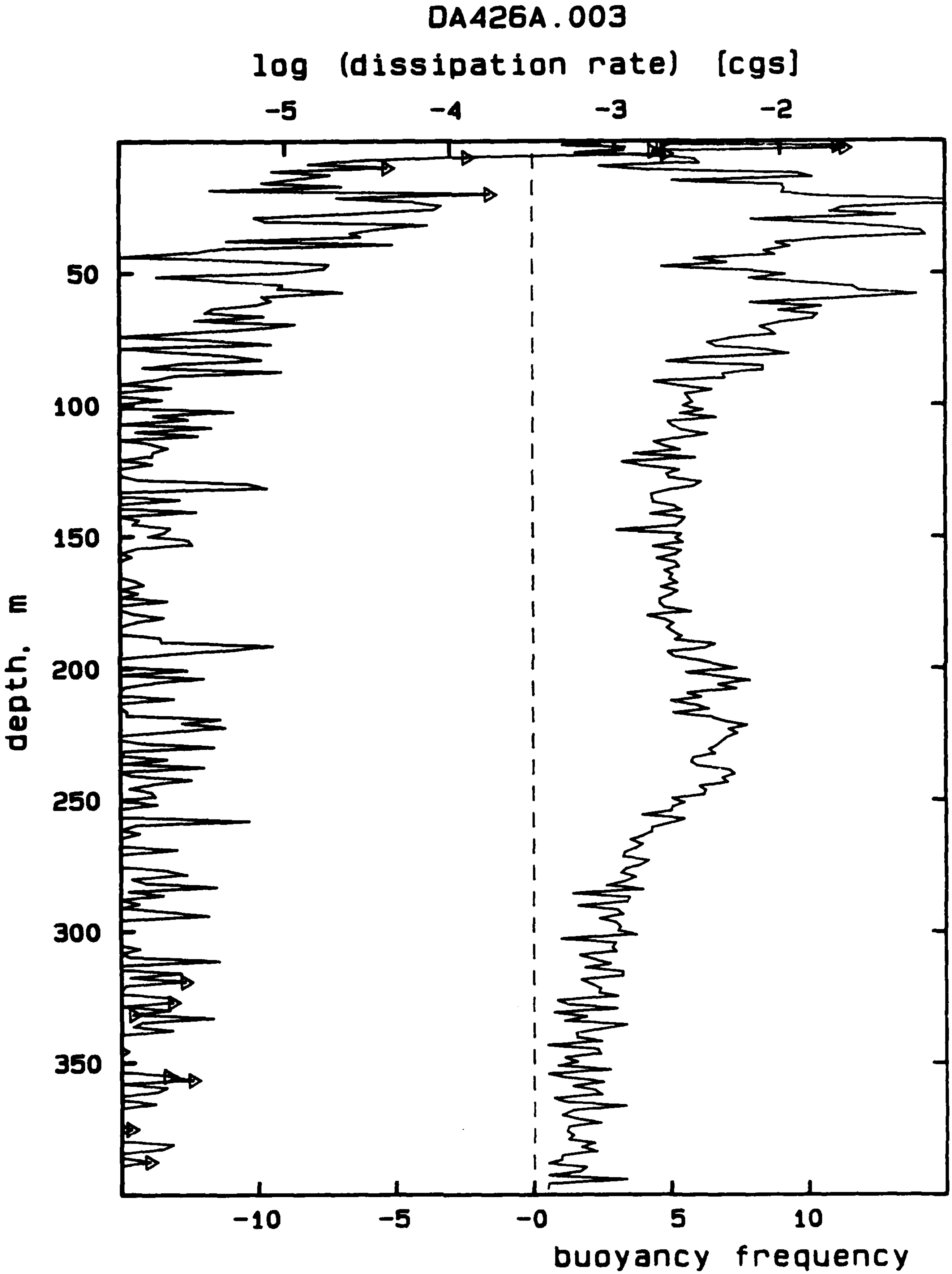

DA425G.005
log (dissipation rate) [cgs]
-5
-4
-3
-2
depth. m
50
100
150
200
250
300
350
-10
-5
-0
5
10
buoyancy frequency

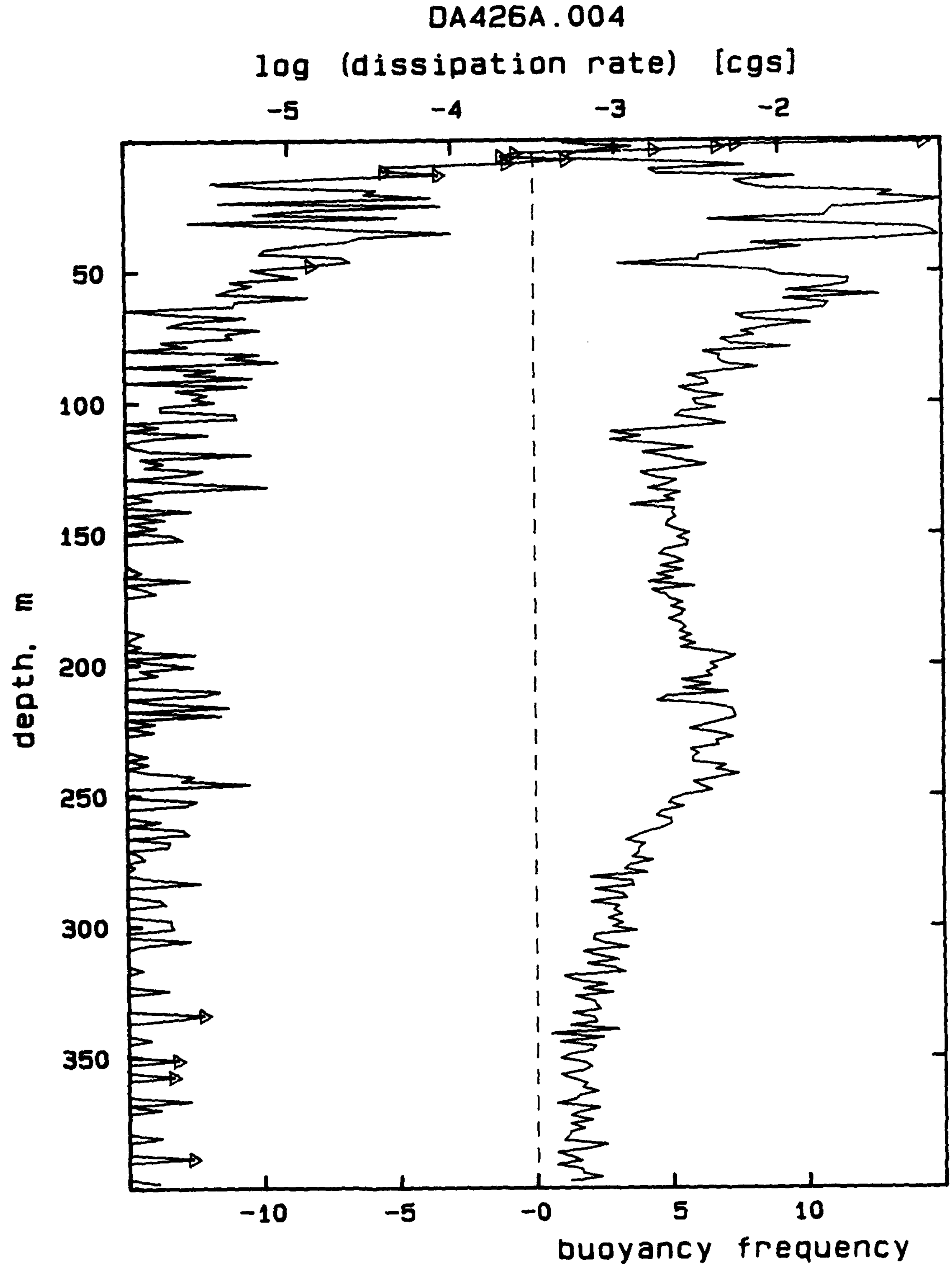

DA425G.006
log (dissipation rate) [cgs]
-5
-4
-3
-2
50
100
150
200
250
300
350
depth. m
-10
-5
-0
5
10
buoyancy frequency

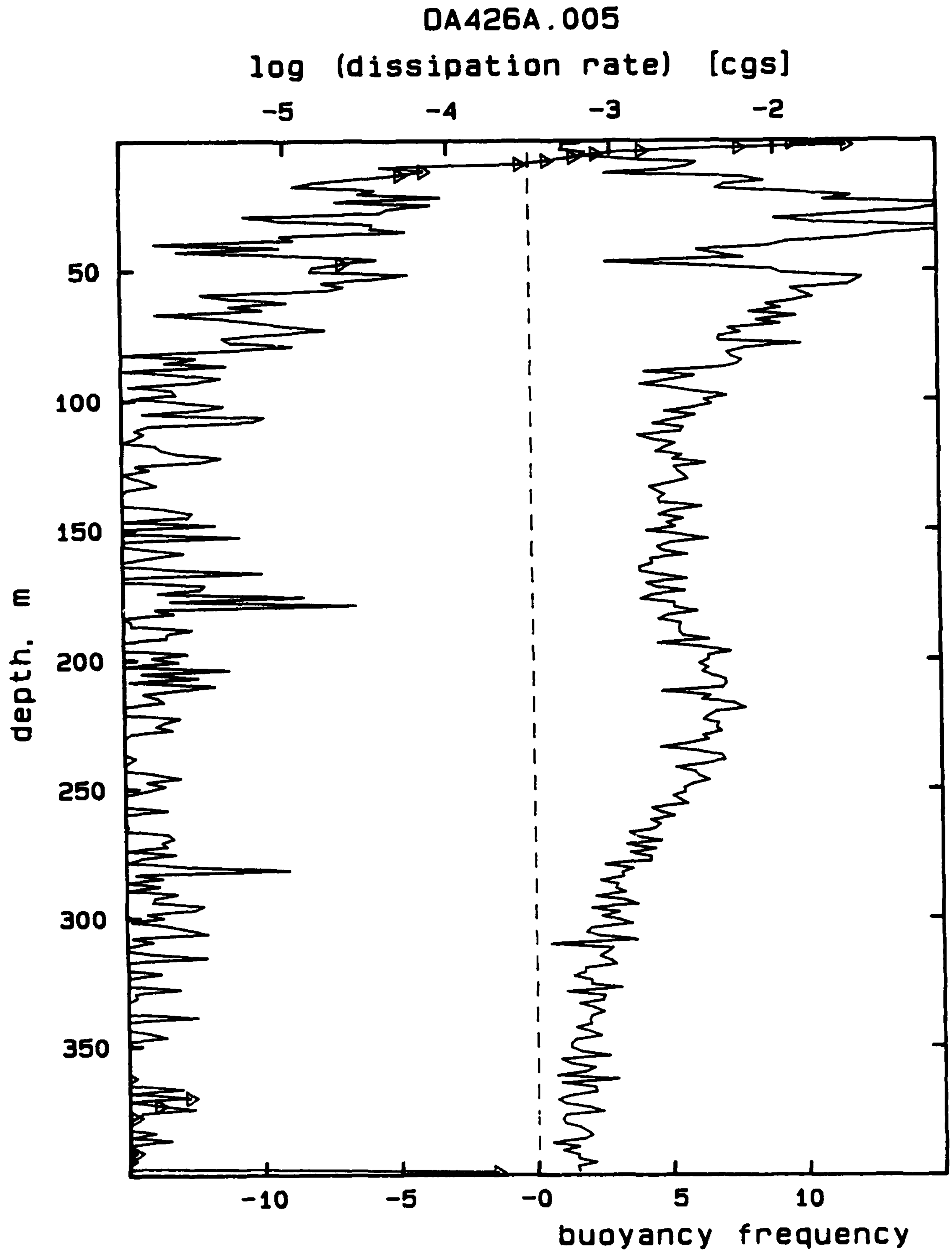

DA425G.007
log (dissipation rate) [cgs]
-5
-4
-3
-2
50
100
150
200
250
300
350
depth, m
--10
-5
-0
5
10
buoyancy frequency

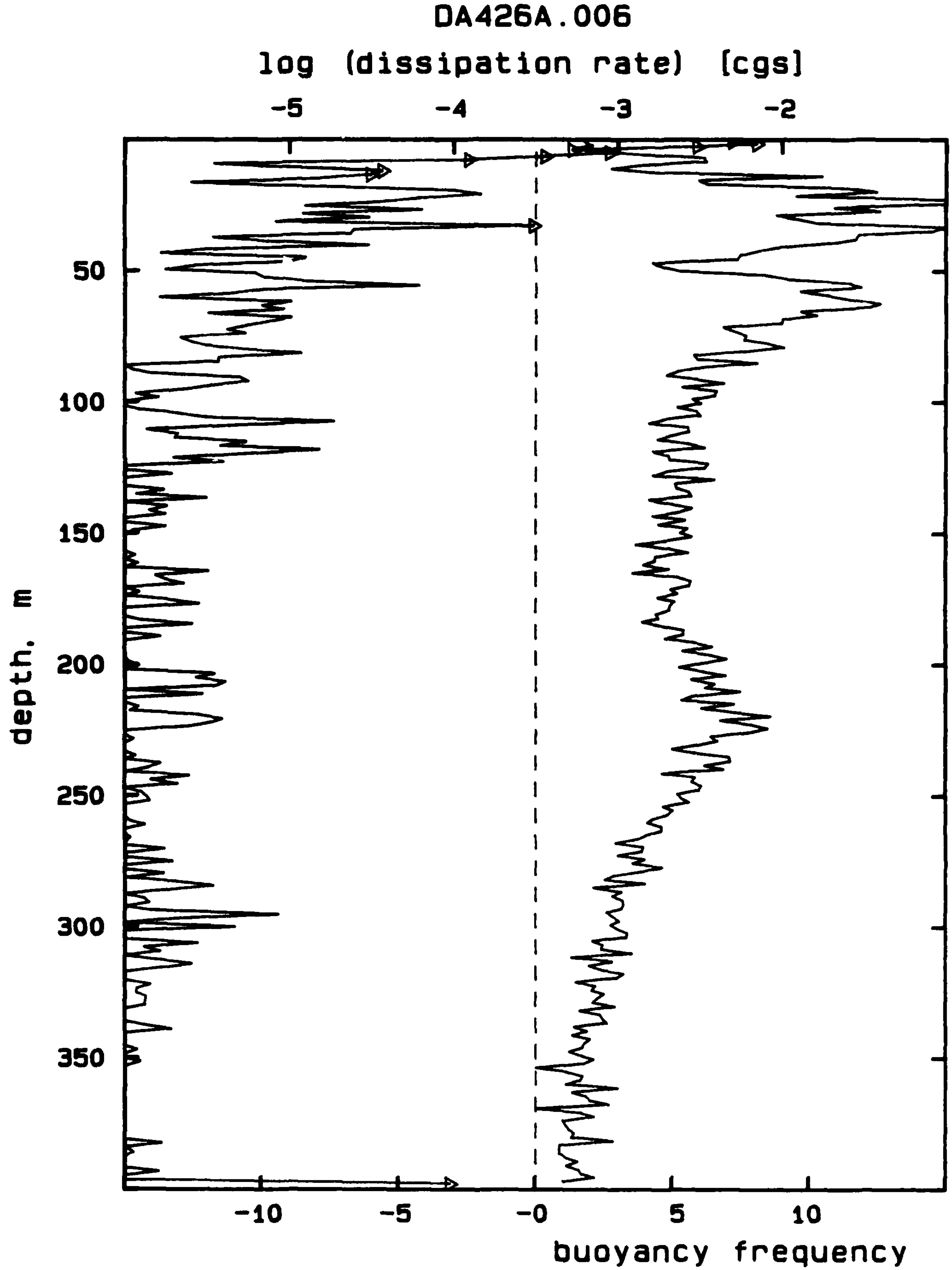

DA426A.001
log (dissipation rate) [cgs]
-5
-4
-3
-2
depth, m
50
100
150
200
250
300
350
-10
-5
-0
5
10
buoyancy frequency


DA426A.002
log (dissipation rate) [cgs]
-5
-4
-3
-2
depth, m
50
100
150
200
250
300
350
-10
-5
-0
5
10
buoyancy frequency


DA426A.003
log (dissipation rate) [cgs]
-5
-4
-3
-2
depth, m
50
100
150
200
250
300
350
-10
-5
-0
5
10
buoyancy frequency


DA426A.004
log (dissipation rate) [cgs]
-5
-4
-3
-2
50
100
150
200
250
300
350
depth, m
-10
-5
-0
5
10
buoyancy frequency


DA426A.005
log (dissipation rate) [cgs]
-5
-4
-3
-2
depth. m
50
100
150
200
250
300
350
-10
-5
-0
5
10
buoyancy frequency


DA426A.006
log (dissipation rate) [cgs]
-5
-4
-3
-2
depth, m
50
100
150
200
250
300
350
-10
-5
-0
5
10
buoyancy frequency

END

7-87

DTIC